

BINARY MAINTENANCE LOG (BML) MESSAGE FORMATS

CDC® OPERATING SYSTEMS:

CYBER 180 CYBER 170 CYBER 70 6000

REVISION RECORD

DEVIOLON	DECORIDATION
REVISION	DESCRIPTION
(10-01-84)	Manual released. It reflects NOS 2.3 at PSR level 617.
B (12-16-85)	This manual reflects NOS 2.4.3 at PSR lvel 647. Additions include support of the nonimpact printer (NIP), dedicated fault tolerance (DFT) program, and rotating mass storage RAM enhancements. BML message formats have been added for unit record equipment (card reader, card punch, and printers), 836 disk, 895 disk, channel status, MAP III/MAP IV, and CYBER 180 class models.
; ;	Due to extensive changes, chart tape is not used; all pages reflect the current revision level. This edition obsoletes all previous editions.
C (12-15-86)	This manual reflects NOS $2.5.1$ at PSR level 670. Additions include support of the 887 disk subsystem, as well as enhancements to the 885 disk subsystem, and support of 698 tape drives. This edition obsoletes all previous editions.
D (09-23-87)	This manual reflects NOS $2.5.3$ at PSR level 688. Support has been dropped for the mass storage subsystem (MSS).
E (04-05-88)	This manual reflects NOS 2.6.1 at PSR level 700. Additions include a new format of the DFT/OS buffer, found on message identification numbers 0250B. Messages referencing a message not issued after NOS 2.4.2 are dropped. This edition obsoletes all previous editions.
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REVISION LETTERS I, O, Q, S, X AND Z ARE NOT USED.

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LIST OF EFFECTIVE PAGES

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This manual describes messages issued to the binary maintenance log (BML) that interfaces with the Network Operating System Version 2 (NOS 2) and the Hardware Performance Analyzer (HPA). This manual also references all NOS-supported equipment and entities that issue messages to the BML system file.

NOS 2 and HPA operate on the following:

CDC CYBER 70 Computer Systems Models 71, 72, 73, and 74

CDC CYBER 170 Computer Systems Models 171, 172, 173, 174, 175, 176A, 176B, 720, 730, 740, 750, 760, 815, 825, 835, 845, 855, 865, and 875

CDC CYBER 180 Computer Systems Models 810, 830, 835, 840, 845, 850, 855, 860, 870, 990, and 995

CDC 6000 Computer Systems

AUDIENCE

This manual is a reference for customer operations personnel and Control Data customer engineers who use the Hardware Performance Analyzer (HPA).

ORGANIZATION

This manual consists of five sections. Section 1 describes the general BML message format and types. Section 2 summarizes octal message identifier (MSGID) codes. Section 3 summarizes common symptom codes. Section 4 summarizes common MSGID and symptom code combinations. Section 5 lists the specific structure for each message type in numeric MSGID order.

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There is a comment sheet at the back of this manual. You can use it to give us your opinion of the manual's usability, to suggest specific improvements, and to report errors. If the comment sheet has already been used, mail your comments to:

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From the USA and Canada: (800) 343-9903

From other countries: (612) 851-4131

RELATED PUBLICATIONS

Control Data Publication	Publication Number
CDC Intelligent Hydra Drive Hardware Maintenance Manual Volume 2 of 4	83325590
CDC Intelligent Hydra Drive Hardware Reference Manual	83325550
CDC 5870 Non-Impact Printer (NIP) Subsystem Hardware Reference Manual	60461360
CDC 7155 Disk Storage Subsystem Reference Manual	60455860
CYBER Record Manager Basic Access Methods Version 1.5 Reference Manual	60495700
CYBER Systems Peripheral Diagnostic Reference Manual	60000114
CYBER 70 Model 71 Computer System Hardware Reference Manual	60453300
CYBER 70 Model 72 Computer System Hardware Reference Manual	60347000

Company Date Publication	Publication
Control Data Publication	Number
CYBER 170 Computer Systems Models 171 through 175 (Levels A, B, C) Model 176 (Level A, B, C) Hardware Reference Manual	60420000
CYBER 170 Computer Systems Models 720, 730, 740, 750, and 760 Model 176 (Level B/C) Hardware Reference Manual	0 60456100
CYBER 170 Computer Systems Models 815 and 825 Hardware Reference Manual	60469350
CYBER 170 Computer Systems Models 835, 845, and 855 CYBER 180 Computer Systems Models 835, 840, 845, 850, 855, 860, and 990 CYBER 990E and 995E Computer Systems CYBER 170 State Hardware Reference Manual	60469290
CYBER 170 Computer Systems Models 865 and 875 Hardware Reference Manual	60458920
CYBER 180 Models 810 and 830 Computer Systems Hardware Reference Manual	60469420
CYBER 840A, 850A, 860A, and 870A Computer Systems Hardware Reference Manual	60463560
Direct Extended Memory Access (DEMA) Disk Storage Reference Manual	60459570
Hardware Performance Analyzer User Reference Manual	60459460
MAP Field Maintenance Manual	60459900
65206-2 FSC Hardware Reference Manual	60457940
7155-401 Disk Storage Subsystem Hardware Reference Manual	60459570
380-170 Network Access Device Hardware Reference Manual	60458500
834/836 Intelligent Small Disk (ISD) Subsystem Hardware Reference Manual	60459460

CONVENTIONS

The following conventions apply to user entry formats presented in this manual.

- Bit 0 is the least significant bit in fields shown with bit numbers.
- All numbers are decimal unless otherwise noted.
- Hexadecimal numbers are indicated by the use of parentheses.

- All MSGID and symptom codes are octal numbers, designated with a B. For example, 0012B is the same as 0012g.
- CYBER Computer Systems are designated by system number or model number. For example, 170 Models refers to all CYBER 170 Models listed in the preface, and Model 825 refers to the CYBER 170 Model 825.

DISCLAIMER

The descriptions of BML messages are intended for use only with HPA and NOS 2. Control Data cannot be responsible for BML messages produced by other programs or systems.

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The binary maintenance log (BML) is a system file that stores equipment-related messages issued by operating system programs. The structure of each message in the file depends upon the type of equipment or entity to which the message applies. Each message contains a message identifier (MSGID) and a symptom code that specifies the message structure and identifies the error or special condition causing the message to be generated.

This section describes the general BML message structure, the CYBER Record Manager (CRM) W-word, BML message formats for the central processing unit (CPU) and peripheral processing (PP) programs, and the BML disk format. This section also describes message types and the format of both hardware error/usage messages and system software messages.

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GENERAL BML MESSAGE STRUCTURE

Field

Word

The BML interface is defined as the user-accessible file produced by the MAINLOG utility. The format of a BML message as it appears in this file is shown below.

	59	47	35		0
Word *	 	CRMW			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Word 0	LENGTH	! ! RESERVED !	! ! !	PDT	!
Word 1	 	JOBID			! ! !
Word 2	MSGID	! ! SYMPTOM !	! ! DATA !		!
Word 3	l	DATA		,	
• !					! ! !
Word 61		DATA			! ! !

Location

CRMW	*	59-0	CYBER Record Manager (CRM) W-word.
LENGTH	0	59–48	Binary number specifying total message length in number of 60-bit words, including word 0.
RESERVED	0	47-36	Reserved for future use. This field must be set to zero.
PDT	0	35-0	Packed date and time. Date and time is in the format YYMMDDHHMMSS. The year (YY) is biased by 1970. The date and time are needed to correctly sequence messages. The accuracy of the time is not as critical as the relative accuracy of the elapsed time from event to event. The date and time might not be present for BML messages generated during deadstart procedures.

Description

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<u>Field</u>	Word	Location	<u>Description</u>
JOBID	1	59-0	Job identification (job sequence name, JSN) of job that issued the message; in display code, left-justified, zero-filled.
MSGID	2	59–48	Message identifier. Binary number used to identify the format of the data fields.
SYMPTOM	2	47 – 36	Binary number indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
DATA			The format of the data area varies from message to message, and depends on the value of the MSGID and SYMPTOM fields. The length of the data area also varies. Total message length can be as large as 63 words including the CRM W-word.

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CYBER RECORD MANAGER W-WORD

WC

17-0

When the MAINLOG utility creates a user-accessible BML file, it places a CYBER Record Manager (CRM) W-word at the beginning of each BML message. This allows use of CRM to analyze the BML file. Refer to the CYBER Record Manager BAM Reference Manual listed in the preface for information on processing the W-word. The format of the CRM W-word is as follows.

	59	41	23		17		0
Word *	! ! ! FLAGS ! !!	PSIZE	!!!!	U	!!!!	WC	! ! !
<u>Field</u>	Location					Description	<u>on</u>
FLAGS	59-42	FLAG Fie	eld.				
	(59)	Parity l	-	used	l to	maintain	odd parity within
	(58-42)	Set to a	zero.				
PSIZE	41-24	central for that	memo t mes	ry ((CM) ≥• T	words inc	message in luding the W-word is zero if there
U	23-18	Unused.					

Number of CM words necessary to contain the

BML message, not including word *.

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CPU PROGRAM MESSAGE FORMAT

The general format of BML messages issued by a CPU program is shown below. After the CPU program issues a BML message, NOS strips off word \star and adds words 0 and 1. When MAINLOG accesses the BML file, MAINLOG adds the CRM W-word.

	59	47	35	0
Word *	! ! MSIZE !	! ! !	0	! ! !
Word 2	! ! MSGID !	! SYMPTOM!	! ! DATA !	! ! !
Word 3	! !		DATA	! ! !
Word 4	! ! !	1	DATA	!
•	!		•	!
•	! !		•	!
•	! !		•	<u> </u>
Word 61			DATA	! !
Word 4			DATA	

<u>Field</u>	Word	Location	<u>Description</u>
MSIZE	*	59-48	Number of 60-bit words in the message, not including word *.
MSGID	2	59–48	Message identifier for the message type.
SYMPTOM	2	47–36	Symptom code indicating the error or special condition causing the entry to be logged.
DATA			Data in these fields depends on the message type specified in the MSGID and SYMPTOM fields.

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PP PROGRAM MESSAGE FORMAT

The general format of BML messages issued by a PP program is shown below. After the PP program issues a BML message, NOS adds words 0 and 1. When MAINLOG accesses the BML file, MAINLOG adds the CRM W-word.

	59	47	35		0
Word 2	! ! MSGID !	! ! SYMPTOM !	! ! !	DATA	! ! !
Word 3	! ! !		1	DATA	! ! !
Word 4	! ! !		1	DATA	. ! !
Word 5	! ! !			DATA	! ! !
Word 6	! ! !]	DATA	! ! !
Word 7	! ! !]	DATA	! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier for the message type.
SYMPTOM	2	47-36	Symptom code indicating the error or special condition causing the entry to be logged.
DATA		·	Data in these fields depends on the message type specified in the MSGID and SYMPTOM fields.

BML DISK SECTOR FORMAT

BML messages are written to disk in 64-word sectors. The first word of each sector is a control word that identifies the beginning of the first message in the sector. NOS uses this control word to recover from situations where a deadstart caused an incomplete BML message to be written in a preceding sector.

Each sector of the BML is written in the following format.

	59	11 0
Word 0	D! S! RESERVED F!	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
Word 1	BML MESSAGE	! ! !
	BML MESSAGE	: !
Word 63	•	! ! !

Field	Location	Description
DSF	59	Zero-level deadstart flag. This bit is set if a 0, 1, or 2 recovery level deadstart has occurred since the previous sector was written.
OFFSET	11-0	A 12-bit field containing a binary number for the word offset in the sector of the beginning of the first message.
BML MESSAGE		BML message as previously described in this section. The first and last BML messages in the sector may be incomplete and span sector boundaries.

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MESSAGE TYPES

The message identification (MSGID) field contains a binary number that identifies the format of the remaining portion of the message. Message types and corresponding MSGID octal numbers are as follows.

Message Type	MSGID
Hardware Error/Usage Message	0001B-0377B
System Software Messages	0400B-0477B
CDC Reserved	0500B-0577B
QSS Software Messages	0600B-0677B
QSE Hardware Messages	0700B-0777B
CDC Reserved	1000B-7777B

Refer to section 2 for a list of defined message identification numbers.

HARDWARE ERROR/USAGE MESSAGES

All hardware error/usage messages (octal MSGIDs between 0001B and 0377B) conform to the detailed format given below. Words 0 and 1 are described earlier in this section under General BML Message Structure. Unused fields are zero-filled.

	59	47	41	35	29	23	11	0
Word 2	! ! MSGID !	! ! SY !	MPTOM	! ! !		PATH		! ! !!
Word 3	! ! EST !	! ! RTY !	! ! FLG !	! ! CHR !	! ! RES !	! ! MID !	! ! HUI !	! ! !
Word 4	! DEVICE-DEPENDENT DATA				! ! !			
•	! ! !				_! ! _!			
Word n	!	D	EVICE-I	EPENDE	NT DAT	A		! ! !

<u>Field</u>	Word	Location	Description
MSGID	2	59-48	Message identifier in the range from $0001B$ to $0377B$.
SYMPTOM	2	47-36	Binary value indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
PATH	2	35-0	Description of the path used to access the equipment. Information in this field may include but is not limited to PP number, channel number, equipment number, and unit number. Additional information describing this path may be placed in the device-dependent data field.
EST	3	59-48	Binary value of the ordinal number from the equipment status table (EST). It is zero when no EST ordinal exists for the equipment. Examples are LCN NADs, federal standard channel (FSC) adaptors, and status and control registers, and maintenance registers.
RTY	3	47-42	Binary number indicating either the number of attempts it took to recover or the number of retries attempted before declaring the problem to be unrecoverable. If more than 63 entries were attempted, RTY is set to 77B.
FLG	3	41-36	Flag field. This field is a general-purpose utility field for indicators and conditions that may be expressed as a binary value.
			Bits 41-40: Reserved and zero-filled.
			Bit 39: Not first block flag. 0 BML message is the first block of a
			message. l BML message is not the first block of a message.

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<u>Field</u>	Word	Location	Des	cription
			Bit 38:	Continuation block flag. 0 Final or only message. 1 Another message will follow.
			Bit 37:	Operation flag. O Read operation. l Write operation.
	•		Bit 36:	Error flag. O Recovered error. l Unrecovered error.
			between the No	shows the relationship ot First Block Flag rd 3) and the Block Flag (bit 38 of
•			Bit 39 Bit 3	8 Description
			0 0	The current BML message consists of one and only one block.
			0 1	The current message is the first block of a multi-block message.
			· 1 0	The current message is the last block of a multi-block message.
			1 1	The current block is not the first block and is not the last block of a multi-block message.
CHR	3	35-30	an error. Th	r used to recover from is may be different nel on which the error
RES	3	29-24	Reserved and	zero-filled.

<u>Field</u>	Word	Location	Description
MID	3	23-12	Machine identifier indicating the mainframe that detected the error. The machine identifier is one or two left-justified, zero-filled, alphanumeric display code characters.
HUI	3	11-00	Hardware unique identifier. A binary value identifying which device of a type is being reported on. This is not a unique identifier on an entire system. The HUI is by device type. Its purpose is to enable differentiation of devices in a multimainframe environment even if the PATH description to the device is the same on each system. This allows running all BML files through the same HPA. This field is set to zero if no HUI exists.
DEVICE- DEPENDEN DATA	T		The data in these fields depends on the message type indicated in the MSGID and SYMPTOM fields.

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SYSTEM SOFTWARE MESSAGES

All system software messages (octal MSGIDs between 0400B and 0477B) conform to the detailed format given below. Words 0 and 1 are described earlier in this section under General BML Message Structure.

	59	47	35		0
Word 2	! ! MSGID !	! ! SYMPTOM !	! ! !	DATA	!
Word 3	! ! !		DATA		! ! !
•	! ! !		. •		! !
•	! !		•		!
•	! !		•		!
Word 61	! ! !		DATA		! ! !

<u>Field</u>	Word	Location	<u>Description</u>
MSGID	2	59–48	Message identifier in the range from $0400B$ to $0477B$.
SYMPTOM	2	47–36	Binary number indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
DATA			The data in these fields depends on the message type indicated in the MSGID and SYMPTOM fields.

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QSS SOFTWARE MESSAGES

All QSS software messages (octal MSGIDs in the range from 0600B to 0677B) conform to the detailed message format described earlier in this section under System Software Messages.

QSE MESSAGES

All QSE hardware messages (octal MSGIDs in the range from 0700B to 0777B) conform to the detailed message format described earlier in this section under Hardware Error/Usage Messages.

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MSGID codes and corresponding devices are as follows. Device mnemonics for mass storage equipment are in parentheses.

MSGID	<u>Device</u>
0001B	Reserved
0002В	7054/844-2x (DI)
0003B	7054/844-4x (DJ)
0004В	7154/844-2x (DK)
0005В	7154/844-4x, 7155/844-4x (DL)
0006В	819 Disk (DV/DW)
0007В	7155/885-1x (Half Track) (DM)
0010B	3330-1 (DX)
0011B	3330-11 (DY)
0012B	3350 (DZ)
0013B	33502 (DA)
0014B	7155-401/885-42 (DB)
0015B	Reserved
0016B	Reserved .
0017B	7155/885-lx (Full Track) (DQ)
0020В	405 Card Reader
0021B	415 Card Punch
0022B	512 Printer
0023B	580-12 Printer
	580-16 Printer
0025B	580-20 Printer
0026B	580-12/PFC Printer
0027B	580-16/PFC Printer
0030B	580-20/PFC Printer
0031B	5870 Printer Subsystem
0032B	5970 Printer Subsystem (Not Supported)
0033B-0041B	Reserved
0042B	667 Tape
0043B	Reserved
0044B	677 Tape
0045B 0046B-0051B	FSC 7-Track Reserved
0052B	669 Tape
0053B	698 Tape
0054B	679 Tape
0055B	Reserved
0056B	FSC 9-Track
0057B	639 Tape
0060B	6671 Multiplexer
0061B	6676 Multiplexer
0062B	2550-100/6671
0063B	2550-100/6676
00000	2330 100/00/0

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MSGID	<u>Device</u>
0064B	2550 NPU
0065B	MDI
0066B	Reserved
0067B	6683 Coupler
0070B	ECS I-DC135 DDP
0071B	ECS I-Coupler
0072B	ECS II-DC135 DDP
0073B	ECS II-Coupler
0074B	ECS I-DC145 DDP
0075B	ECS II-DC145 DDP
0076В	LCME Coupler
0077В	Unified Extended Memory (UEM)
0105B	MSE-FSC Error
0106B	MSE-7990 Error
0107В	MSE-Usage Data
0110B	7255/834 Disk (DD)
0111B	7255/836 Disk (DG)
0112B-0114B	Reserved
0115B	7165/895 (Full Track) (DC)
0116B-0119B	Reserved
0120B	887 Disk (4K byte sector) (DF)
0121B	887 Disk (16K byte sector) (DH)
0122B-0167B	Reserved
0170B	ESM-Coupler (ESM mode)
0171B	ESM-Low Speed Port (ESM mode)
0172B	STORNET Maintanana Bant
0173B	STORNET Maintenance Port
0174B-0177B	Reserved
0200B 0201B	SCR-Models 171, 172, 173, 174, and 175 SCR-Models 720, 730, 740, 750, and 760
0201B 0202B	SCR-Model 176A
0203B	SCR-Model 176B
0204B	SCR-Model 1708 SCR-Model 865
0204B	SCR-Model 875
0206B	Channel Status
0207B	ESM-Coupler (ECS mode)
0210B	ESM-Low Speed Port (ECS mode)
0211B	ESM Maintenance Port
0212B-0237B	Reserved
0240B	Dual State
0241B-0247B	Reserved
0250B	Maintenance Registers (DFT)
0251B	Diagnostic PP
02 5 2 B	Diagnostic MALET
0253B	Diagnostic Other
0254B-0277B	Reserved
0300B	Local NAD
0301B	Remote NAD
0310B	CYBERPLUS
0320B	MAP III/MAP IV
0400B	Software Initialization
0401B	Hardware Initialization

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MSGID	<u>Device</u>
0402B	On-line Software Reconfiguration
0403B	On-line Hardware Reconfiguration
0404B	Operator Action
0405B	Maintenance Action
0406B	Binary Maintenance Log
0407B	Hardware Configuration
0410B	Mainframe Status
0411B	Software Error
0412B-0477B	Reserved

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The following list provides a brief description for common symptom codes.

Symptom Code	Description
0001B	Channel active.
0002B	Channel inactive.
0003В	Channel full.
0004B	Channel empty.
0005В	Incomplete data transfer.
0006В	External reject.
0007В	Internal reject.
0010B	Transmission parity.
0011B	Channel stays active after inactivate.
0012B	Cannot connect.
0013B	Channel stays inactive after activate.
0014B	Channel downed by operator.
0015B	Channel downed by system.
0016B	Channel upped by operator.
0017B	Channel upped by system.
0020B-0021B	Reserved.
0022B	Conversion memory error.
0023B	Channel failure.
0024B	Channel parity.
0025B	Function reject.
0026B	6681 internal/external reject.
0027B	Equipment turned off by operator.
0030B	Equipment turned off by system.
0031B	Equipment turned on by operator.
0032B	Equipment turned on by system.
0033B	Equipment downed by operator.
0034B	Equipment downed by system.
0035B	Equipment upped by operator.
0036B	Equipment upped by system. Reserved.
0037B 0040B	
0040B	Parity error. No EOP on I/O.
0043B	Unit not ready.
0044B	Unit hung busy.
0044B	Memory parity error loading.
0045B	Memory parity error data.
0047B	Firmware load (controller stop).
0050B	Firmware dead (function timeout).
0051B	Cannot autoload.
0052B	Off equipment.
0053B	On equipment.
0054B	Controlware serial number.
* *	•

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Symptom Code	Description
0055В	Restart controlware.
0056B	Device reserved.
0057в	Abnormal end operation interrupt.
0060B	Cumulative status.
0061B	Temperature abnormal.
0062B	Sync error.
0063B	RAM parity error.
0064B	Diagnostic error.
0065B	Memory flag.
0066В	Channel reserved.
0067B	Data verification error.
0070B-0073B	Reserved.
0074B	Examine general status.
0075B	Examine detail status.
0076B	Undefined error.
0077B -	Copyright.

3-2

The following entries list meanings associated with selected combinations of MSGID and symptom codes. Device mnemonics for equipment are in parentheses in the MSGID column.

For MSGIDs associated with mass storage devices, some of the symptom codes are of the form XnnnB. X is defined as a four-bit field indicating the driver that issued the message. The values for X are as follows:

<u>Value</u>	Driver
0	6DI/6DJ
1	6DP
2	6DE
3	6DX
4	1MC
5	ELM
6	lhp
7	HCD
10	1 XM
11	1HY
12	1 XY

MSGID	Symptom Code	<u>Meaning</u>
7054/844-2:	x (DI)	
0002B	001 5B X02 4B 003 0B 003 4B X04 0B X05 0B X05 1B X05 6B X05 6B X06 3B 006 7B X1 0 0B X1 0 2B X1 0 3B 01 0 5 B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DI). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by lMV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by lMV).

60459940 E

MSGID	Symptom Code	Meaning
7054/844-4x (D	J)	
0003B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X1 00B X1 02B X1 03B 01 05 B	Channel downed by system (detected by IMV). Channel parity error (detected by 6DI). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).
7154/844-2x (D	K)	
0004B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X1 00B X1 02B X1 03B 01 05 B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DI). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by lMV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by lMV).
7154/844 - 4X (I	DL)	
0005В	0015B X024B 0030B 0034B X040B X043B X050B X051B X056B X063B 0067B X100B X102B X103B 0105B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DI). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by lMV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by lMV).

60459940 E

MSGID	Symptom Code	Meaning
819 Disk (DW)		
0006В	0015B 0030B 0034B 0067B X100B X101B X102B X103B X104B 0105B	Channel downed by system (detected by IMV). Device turned off by system (detected by IMV). Device downed by system (detected by IMV). Data verification error (detected by IMV). Address error (detected by 6DE). Unrecovered data error (detected by HCD). Recovered data error (detected by HCD). Hardware error (detected by HCD). Software error (detected by HCD). Track flawed (detected by IMV).
7155/885 - 1x (Ha	lf Track)	(DM)
0007В	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X1 00B X1 02B X1 03B 01 05B	Channel downed by system (detected by IMV). Channel parity error (detected by 6DI). Device turned off by system (detected by IMV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).
3330-1 (DX)		
0010B	0015B X024B 0030B 0034B X040B X043B X050B X051B X056B X063B 0067B X100B X102B X103B 0105B	Channel downed by system (detected by 1MV). Channel parity error (detected by 6DI). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).

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MSGID	Symptom Code	Meaning
3330-11 (DY)		
0011B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X1 0 0B X1 0 2B X1 0 3B 01 0 5B	Channel downed by system (detected by 1MV). Channel parity error (detected by 6DI). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).
3350 (DZ)		
0012B	001 5B X02 4B 003 0B 003 4B X04 0B X0 4 3B X0 5 0B X0 5 1B X0 5 6B X0 6 3B 00 6 7B X1 0 0B X1 0 2B X1 0 3B 01 0 5 B	Channel downed by system (detected by 1MV). Channel parity error (detected by 6DI). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).
33502 (DA)		
0013B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B	Channel downed by system (detected by IMV). Channel parity error (detected by 6DI). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI).

• 4-4 60459940 E

MSGID.	Symptom Code	Meaning
33502 (DA)		
0013B	X056B X063B 0067B X100B X102B X103B 0105B	Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by 1MV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by 1MV).
7155-401/885-42	2 (DB)	
0014B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X07 4B X07 5B X100B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DI, 1HP). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DI, 1HP). Device not ready (detected by 6DI, 1HP). Firmware dead (detected by 6DI, 1HP). Cannot autoload controller (detected by 6DI, 1HP). Unit reserve error (detected by 6DI, 1HP). RAM parity error (detected by 6DI, 1HP). Data verification error (detected by 1MV). General status (detected by 1HP). Detailed status (detected by 1HP). Address error (detected by 6DI, 1HP).
	X102B X103B 0105B	Status error (detected by 6DI, 1HP). Controller reserve error (detected by 6DI, 1HP). Track flawed (detected by 1MV).

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MSGID	Symptom Code	Meaning
7155/885-lx (F	ull Track)	(DQ)
0017B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B X06 3B 006 7B X1 0 0B X1 0 0B X1 0 2B X1 0 3B 01 0 5B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DI). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DI). Device not ready (detected by 6DI). Firmware dead (detected by 6DI). Cannot autoload controller (detected by 6DI). Unit reserve error (detected by 6DI). RAM parity error (detected by 6DI). Data verification error (detected by lMV). Address error (detected by 6DI). Status error (detected by 6DI). Controller reserve error (detected by 6DI). Track flawed (detected by lMV).
405 Card Reade	r (CR)	•
0020B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Compare error.
415 Card Punch	(CP)	
0021B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Compare error. Feed failure.

● 4-6 60459940 E

MSGID	Symptom Code	Meaning	
512 Printer (L	Q)		
0022В	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. Print error total.	
580-12 Printer	(LR)		
0023В	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. Print error total.	
580-16 Printer (LS)			
O024B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. Print error total.	

60459940 E 4-7 ●

MSGID	Symptom Code	Meaning
580-20 Printer	(LT)	
0025B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. Print error total.
580-120 Printer	(LR)	
OO26B .	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0000B 0101B 0102B 0103B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. PFC error. Print error total.
580-160 Printer	(LS)	
0027B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B 0102B 0103B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. PFC error. Print error total.

● 4-8 60459940 E

MSGID	Symptom Code	Meaning
580-200 Printer	(LT)	
0030B	0005B 0010B 0024B 0025B 0027B 0030B 0031B 0032B 0044B 0050B 0100B 0101B 0102B 0103B	Incomplete data transfer. Transmission parity error. Channel parity error. Function reject. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Controller hung busy. Function timeout. Accounting data. Printer error. PFC error. Print error total.
5870 Printer Su	bsystem (I	LX)
0031B	0005B 0024B 0027B 0030B 0031B 0032B 0050B 0100B 0103B	Incomplete data transfer. Channel parity error. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Function timeout. Accounting data. Printer error total. CCC/NIP status error.
5970 Printer Su	bsystem (I	LY) (Reserved for future use)
0032B	0005B 0024B 0027B 0030B 0031B 0032B 0050B 0100B 0103B 0113B	Incomplete data transfer. Channel parity error. Equipment turned off by operator. Equipment turned off by system. Equipment turned on by operator. Equipment turned on by system. Function timeout. Accounting data. Printer error total. CCC/NIP status error.

60459940 E 4−9 ●

MSGID	Symptom Code	Meaning	
MTS 7-Track			
0042B	0100в	Corrected tape errors.	
ATS 7-Track			
0044B	0100в	Corrected tape errors.	
FSC 7-Track			
0045B	0100в	Corrected tape errors.	
MTS 9-Track			
0052B	0100B	Corrected tape errors.	
CMTS 9-Track			
0053В	0100В	Corrected tape errors.	
ATS 9-Track		•	
0054B	0100в	Corrected tape errors.	
FSC 9-Track			
0056В	0100В	Corrected tape errors.	
ISMT 9-Track			
0057В	0100в	Corrected tape errors.	
MDI			
0065В	0051B	Cannot load.	
6683 Satellite Coupler			
0067В	0005B 0011B 0076B 0101B 0102B 0103B 0104B 0105B 0106B	Receive block length failure. Hardware/software failure. Undefined error. Invalid coupler status. Channel left active. Send transmission broken. Receive block invalid. Invalid control/length byte. Coupler/channel test failed.	

• 4-10 60459940 E

MSGID	Symptom Code	Meaning
ECS I-DC135 DD	P (DP)	
0070В	001 5B 003 0B 003 4B X04 0B X04 3B X05 0B 006 7B X1 0 0B X1 0 2B 01 0 5B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DP, 6DE, ELM, lMC). Device not ready (detected by 6DP). Firmware dead (detected by 6DP). Data verification error (detected by lMV). Address error (detected by 6DP, 6DE). Status error (detected by 6DP). Track flawed (detected by lMV).
ECS I-COUPLER	(DE)	
0071В	0015B 0030B 0034B X040B X043B 0067B X100B 0105B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DE, lMC, ELM). Device not ready (detected by 6DE). Data verification error (detected by lMV). Address error (detected by 6DE). Track flawed (detected by lMV).
ECS II-DC135 D	DP (DP)	
0072B	0015B 0030B 0034B X040B X043B X050B 0067B X100B X102B 0105B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DP, 6DE, ELM, lMC). Device not ready (detected by 6DP). Firmware dead (detected by 6DP). Data verification error (detected by lMV). Address error (detected by 6DP, 6DE). Status error (detected by 6DP). Track flawed (detected by lMV).

60459940 E 4-11

MSGID	Symptom Code	<u>Meaning</u>
ECS II-COUPLER	(DE)	
0073B	0015B 0030B 0034B X040B X043B 0067B X100B 0105B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DE, lMC, ELM). Device not ready (detected by 6DE). Data verification error (detected by lMV). Address error (detected by 6DE). Track flawed (detected by lMV).
ECS I-DC145 DDF	(DP)	
0074B	0015B 0030B 0034B X040B X043B X050B 0067B X100B X102B 0105B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DP, 6DE, lMC, ELM). Device not ready (detected by 6DE). Firmware dead (detected by 6DP). Data verification error (detected by lMV). Address error (detected by 6DP, 6DE). Status error (detected by 6DP). Track flawed (detected by lMV).

● 4-12 60459940 E

MSGID	Symptom Code	Meaning
ECS II-DC145	DDP (DP)	
0075B	001 5B 003 0B 003 4B X04 0B X04 3B X0 5 0B 006 7B X1 0 0B X1 0 2B 01 0 5B	Channel downed by system (detected by 1MV). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DP, 6DE, 1MC, ELM). Device not ready (detected by 6DE). Firmware dead (detected by 6DP). Data verification error (detected by 1MV). Address error (detected by 6DP, 6DE). Status error (detected by 6DP). Track flawed (detected by 1MV).
LCME Coupler	(DE)	
0076B	001 5B 003 0B 003 4B X04 0B X04 3B Q06 7B X100B 010 5B	Channel downed by system (detected by 1MV). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DE, 1MC, ELM). Device not ready (detected by 6DE). Data verification error (detected by 1MV). Address error (detected by 6DE). Track flawed (detected by 1MV).
UEM (DE)		
0077В	001 5B 003 0B 003 4B 006 7B X100B 010 5B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Data verification error (detected by lMV). Address error (detected by 6DX). Track flawed (detected by lMV).

60459940 E 4-13 ●

	Symptom	•
MSGID	Code	Meaning
MSE-FSC ERRORS	(SS)	
0105B	0001B	Invalid function.
	0002B	Data length error.
•	0003B	Control word error.
•	0004B	Buffer argument error.
	0005B	Header/trailer error.
	0006B	End of volume.
	0007B	Invalid unit number.
	0010B	Buffer timeout error.
	0011B	Tape bottom right.
	0012B	Terminate flag detected.
•	0020B	Status error.
0021B 0022B		Channel hung on input.
		Channel hung on output.
	0023B	Function timeout.
	0024B	No end of operation.
	002 5B	Channel malfunction.
	0026B	Channel parity error.
	0027B	FSC memory parity error.
	0030B	FSC not running.
	0031B	FSC abnormal.
	0032B	FSC diagnostic failure.
	0033B	Checksum error (CM driver).

● 4-14 60459940 E

MSGID	Symptom Code	Meaning
MSE-7990 ERROR	S (SS)	
0106В	0036B 0060B 0100B	Error log overflow. CTF, DTI/DTO errors. DRD,DRC,DIF,DTI/DTO errors device/diagnostic driver.
	0101B 0103B 0104B	Accessor errors, device/diagnostic driver. Device/path status change. ALT,DRD,DRC,DIF,DTI/DTO errors device/diagnostic driver.
	0107B 0140B 0141B	Device driver software error. CPU (memory hardware detected errors). Software errors.
MSE-USAGE (SS)		
0107B	0200В	Usage type data.
7255/834 Disk	(DD)	
0110B	0015B X024B 0030B 0034B X040B X043B X050B X051B X056B X063B 0067B X100B X102B X103B 0105B X200B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DJ). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DJ). Device not ready (detected by 6DJ). Firmware dead (detected by 6DJ). Cannot autoload controller (detected by 6DJ). Unit reserve error (detected by 6DJ). RAM parity error (detected by 6DJ). Data verification error (detected by lMV). Address error (detected by 6DJ). Status error (detected by 6DJ). Controller reserve error (detected by 6DJ). Track flawed (detected by lMV). On-line diagnostic message (detected by 6DJ).
7255/836 Disk	(DG)	
0111B	001 5B X02 4B 003 0B 003 4B X04 0B X04 3B X05 0B X05 1B X05 6B	Channel downed by system (detected by lMV). Channel parity error (detected by 6DJ). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DJ). Device not ready (detected by 6DJ). Firmware dead (detected by 6DJ). Cannot autoload controller (detected by 6DJ). Unit reserve error (detected by 6DJ).

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MSGID	Symptom Code	Meaning
7255/836 Disk	(DG)	
0111B	X063B 0067B X100B X102B X103B 0105B X200B	RAM parity error (detected by 6DJ). Data verification error (detected by 1MV). Address error (detected by 6DJ). Status error (detected by 6DJ). Controller reserve error (detected by 6DJ). Track flawed (detected by 1MV). On-line diagnostic message (detected by 6DJ).
7165/895 Disk	(DC)	
0115B	X005B 0015B X023B X024B 0030B 0034B X040B X043B X050B X051B X056B X056B X063B 0067B X100B X102B X103B 0105B	Incomplete data transfer (detected by 1XM). Channel downed by system (detected by 1MV). Channel failure (detected by 1XM). Channel parity error (detected by 6DI, 1XM). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Media error (detected by 6DI, 6DE, 1XM). Device not ready (detected by 6DI, 1XM). Firmware dead (detected by 6DI, 1XM). Cannot autoload controller (detected by 6DI, 1XM). Unit reserve error (detected by 6DI, 1XM). Controller memory error (detected by 6DI, 1XM). Data verification error (detected by 1MV). Address error (detected by 6DI, 6DE, 1XM). Status error (detected by 6DI, 1XM). Controller reserve error (detected by 6DI, 1XM). Track flawed (detected by 1MV).

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MSGID	Symptom Code	Meaning
887 (4K byte se	ctor) (DF)	
0120B	0015B 0030B X100B X103B X104B X105B X106B X107B	Channel downed by system (detected by 1MV). Device turned off by system (detected by 1MV). Driver detected error. First failure data - Disk error register image. First failure data - Disk error log. Error recovery summary. Level I diagnostic results. Level II diagnostic results.
887 (16K byte s	ector) (DH	•
0121B	0015B 0030B X100B X103B X104B X105B X106B X107B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Driver detected error. First failure data - Disk error register image. First failure data - Disk error log. Error recovery summary. Level I diagnostic results. Level II diagnostic results.
STORNET (DP)		
0172B	0015B 0030B 0034B X040B X050B 0067B X100B X102B 0105B	Channel downed by system (detected by 1MV). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DP). Firmware dead (detected by 6DP). Data verification error (detected by 1MV). Address error (detected by 6DP). Status error (detected by 6DP). Track flawed (detected by 1MV).
STORNET Mainten	ance Port	
0173B	0100B 0101B	STORNET SECDED error. STORNET status error.
SCR Models 171,	172, 173,	174, and 175 (SR)
0200B	0100B 0101B	Single bit, corrected occurrence. Single bit, summary table.
SCR Models 720,	730, 740,	750, and 760 (SR)
0201B	0100B 0101B	Single bit, corrected occurrence. Single bit, summary table.

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MSGID	Symptom Code	Meaning	
SCR-Model 176A	(SR)		
0202В	0100B 0101B 0104B	Single bit, corrected occurence. Single bit, summary table. LCME single bit, summary table.	
SCR-Model 176B	(SR)		
0203в	0100B 0101B 0104B	Single bit, corrected occurrence. Single bit, summary table. LCME single bit, summary table.	
SCR-Model 865	(RR)		
0204B	0100B 0101B	Single bit, corrected occurrence. Single bit, summary table.	
SCR-Model 875	(RR)		
0205В	0100B 0101B	Single bit, corrected occurrence. Single bit, summary table.	
Channel Status	(CH)		
0206В	0014B 0015B 0016B 0017B	Channel downed by operator. Channel downed by system. Channel upped by operator. Channel upped by system.	
ESM-COUPLER (D	E)	. •	
0207В	0015B 0030B 0034B X040B X043B 0067B X100B 0105B	Channel downed by system (detected by 1MV). Device turned off by system (detected by 1MV). Device downed by system (detected by 1MV). Parity error (detected by 6DE, 1MC, ELM). Device not ready (detected by 6DE). Data verification error (detected by 1MV). Address error (detected by 6DE). Track flawed (detected by 1MV).	
ESM-LOW SPEED PORT (DP)			
0210B	0015B 0030B 0034B X040B X050B 0067B X100B X102B 0105B	Channel downed by system (detected by lMV). Device turned off by system (detected by lMV). Device downed by system (detected by lMV). Parity error (detected by 6DP, lMC, ELM). Firmware dead (detected by 6DP). Data verification error (detected by lMV). Address error (detected by 6DP). Status error (detected by 6DP). Track flawed (detected by lMV).	

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MSGID	Symptom Code	Meaning
ESM Maintenance	Port	
0211B	0100B 0101B	ESM SECDED error. ESM status error.
DUAL STATE		
0240B	0110B	CM assigned to NOS/VE.
02405	0111B	CM returned to NOS.
	0112B	PP assigned to NOS/VE.
	0113B	PP returned to NOS.
	0114B	CPP assigned to NOS/VE.
	0115B	CPP returned to NOS.
	0120B	Deadstart PP error.
	0121B	Idle PP error.
	0122B	Idle CPP error.
MAINTENANCE REG	ISTERS (Ma:	inframe errors)
0250B	0001B	Deadstart error log IOU error.
	. 0002B	Express deadstart dump IOU error.
	0003B	Corrected IOU error.
	0004B	Uncorrected IOU error (NIO PP halt).
	0005В	12/16 IOU conversion error (NIO PP).
	0006B	Fatal IOU error.
	0007В	Uncorrected channel error (NIO PP).
	001 0B	Fatal IOU error (CIO PP).
	0011B	Uncorrected IOU error (CIO PP halt).
	0012B	12/16 IOU conversion error (CIO PP).
	0013B	Uncorrected channel error (CIO PP).
	0401B	Deadstart error log memory error.
	0402B	Express deadstart dump memory error.
	0403B	Corrected memory error.
	0404B	Uncorrected memory error.
	0405B	Multiple odd bit memory error.
	0406B	Fatal memory error (partial write parity error).
	1001B	Deadstart error log processor error.
	1002B	Express deadstart dump processor error.
	1003B	Corrected processor error.
	1004B	Uncorrected processor error.
	1005B	Retry in progress error.
	1006B	Repaired error.
	1007B	Unrepaired error.
	1010B	Fatal CPU halt (Class 1).
	1011B	Fatal CPU error (CPU error exit mode 20).

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MSGID	Sympton Code	Meaning .
MAINTENANCE	REGISTERS	(Mainframe errors)
0250B	1012B 1013B 1014B 1015B 1030B 1031B 1032B 1033B 1034B 1035B 1036B 3401B 3402B 3403B 3404B 3406B 3407B 3407B	Fatal CPU error (CPU error exit mode 67). Fatal CPU recovery error. Corrected processor error with cache reload. Fatal CPU uncorrected error. Fatal CPU error. Forced uncorrected error. Fatal CPU halt (class 2). Retry converted to uncorrected CPU error. Retry exhausted. Hourly retry threshold exceeded. Partial write address parity error. Environment warning. Long power warning. Short power warning clear. Long power warning clear. Short power warning clear. Element counter buffer. SECDED ID table.
LOCAL NAD (N	C)	
0300В	0100B 2100B 2101B 2102B 2110B 2111B 2112B 2113B 2114B 2115B 2116B 2117B 2120B 2121B 2122B 2140B 2141B 2142B 2141B 2142B 2143B 2144B 2150B 2151B 2150B 2151B 2152B 2153B 2154B	Local NAD error log. Local NAD connection error. NAD hardware fault. NAD microcode disaster halt. Function timeout. Channel inactive after activate. Data timeout. Prime timeout. Flag timeout. Transfer error. Abnormal path status. Abnormal response code. Control message length error. Parameter length error. Transfer length error. Local read error (block error). Local read error (block too large). Local read error (block fragment without EOR/EOI). Local read error (block not 60-bit multiple). Local write error (block too large). Local write error (block too large). Local write error (block not 60-bit multiple). Local write error (block fragment without EOR/EOI). Local write error (network ABN error). Local write error (block fragment without EOR/EOI). Local write error (network ABN error). Local write error (block not 60-64 multiple).

MSGID	Symptom Code	Meaning
REMOTE NAD	(NC)	
0301B	0100B 2160B 2161B 2162B 2163B 2164B 2170B 2171B 2172B 2174B	Remote NAD error log. Header length error. Bad data block length. Bad PRU data block. Abnormal response. Connect in progress timeout. Remote read error (block error). Remote send error (host ABN error). Remote send error (block too large). Remote read error (data length error). Remote read error (block fragment without EOR/EOI). Remote read error (network ABN error).
	2176B	Remote read error (block not 60-bit multiple).
MAP III/MAP	IV	
0320В	0101B 0102B 0103B 0104B 0105B 0106B 0107B 0110B 0111B 0112B	No response to function. Fatal MAP or system error. Checkword or channel parity error. Channel full after output. Timeout on channel input. Timeout on channel output. Channel full before output. Channel active before function. Function busy timeout. Channel empty before input. Parity error in one or more MAP memories or ECS/ESM.
SOFTWARE IN:	ITIALIZATION	
0400B	0100B 0101B	System title. System version name.
HARDWARE IN	ITIALIZATION	
0401B	0100B 0101B 0102B 0103B 0104B 0105B	Pack serial number (7x5x controller, ISD adapter, FSC adapter). Controlware revision level (7x5x controller, ISD adapter, FSC adapter). Operator initiated load (7x5x controller, ISD adapter, FSC adapter). System initiated load (7x5x controller, ISD adapter, FSC adapter). COS revision level. Operator initiated load (COS).
	0106B	System initiated load (COS).

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MSGID	Symptom Code	Meaning
HARDWARE INITIA	LIZATION	
0401B	0107B 0110B 0111B 0112B 0113B 0114B 0115B 0116B 0117B	887 attributes MDI initialized. NIP/CCC peripheral microcode loaded. NIP/CCC peripheral microcode load error. NIP/CCC status error. Controller did not take all controlware. General status. Function timeout. No general status received.
DAYFILE		
0406В	0101B 0102B 0103B 0104B 0105B 0107B 0112B 0113B 0114B	BML created. BML accessed. BML terminated. Deadstart recovery. BML read error. BML data lost. Normal OS termination. BML accessed by HPA. BML messages lost (CPUMTR).
PROCESSOR INITI	ALIZATION	
0407B	0100B	Microcode/EI names.
MAINFRAME STATU	S	
0410B	0100в	Summary of error counters.
SOFTWARE ERROR		
0411B	0100в	Conditional hang.

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The following entries describe the format of messages issued to the BML file. MSGID and SYMPTOM codes are listed in octal. Parentheses indicate hexadecimal numbers.

PROTATING MASS STORAGE ! ! !	! MSGID 0002B-0014B, 0017B, ! 0070B-0077B, 0110B, ! 0111B, 0115B, 0207B, ! 0210B, 0172B
! 819, 834, 836, 844-2x, 844-4x, ! 885-1x, 885-42, 887, 895, ! 3330-1, 3330-11, 3350, 33502	! ! SYMPTOM 0015B, 0030B, 0034B, ! 0067B !

 $\ensuremath{\mathsf{IMV}}$ issues the following message as a result of a device verification failure.

	59	47	35 ′ 2	.9 2	3 17	11 0
Word 2	! ! MSGID !	! ! SYMPTOM !	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! CH ! !	! O ! UN !	! ! ! 0 ! ! !
Word 3	! ! EST !	! ! 0 !	! ! 0	! ! !	MID	! ! ! 0 ! ! !

<u>Field</u>	Word	Location		Description
MSGID	2	59-48	Message i	dentifier.
			0002B	844-2x (DI).
			0003B	844-4x (DJ).
			0004B	844-2x (DK).
			0005B	844-4x (DL).
			0006В	819 (DW).
			· 0007B	885-1x (DM).
			001 OB	3330-1 (DX).
			0011B	3330-11 (DY).
			0012B	3350 (DZ).
			001 3B	33502 (DA).

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<u>Field</u>	Word	Location	Description
			0014B 885-42 (DB). 0017B 885-1x (DQ). 0070B ECS I-DC135 DDP (DP). 0071B ECS I-Coupler (DE). 0072B ECS II-DC135 DDP (DP). 0073B ECS II-DC135 DDP (DP). 0074B ECS II-Coupler (DE). 0074B ECS II-DC145 DDP (DP). 0075B ECS II-DC145 DDP (DP). 0076B LCME-Coupler (DE). 0077B UEM (DE). 0110B 834 (DD). 0111B 836 (DG). 0115B 895 (DC). 0172B STORNET 0207B ESM-Coupler (DE).
SYMPTOM	2	47-36	Symptom code. 0015B Channel downed by system
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59 - 48	EST ordinal of the device.
MID	3	23-12	Machine identifier in display code.

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! ROTATING MASS STORAGE ! !	! ! MSGID 0002B-0014B, 0017B, ! 0070B-0077B, 0110B, 0111B, ! 0115B, 0120B, 0121B, 0207B, ! 0210B, 0172B
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! ! SYMPTOM 0105B !

 $1\mbox{MV}$ issues the following message when a storage media error has been detected.

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 0105B !	! ! PP !	! ! CH !	! ! 0 !	! ! UN !	! ! 0 !	! ! !
Word 3	! ! EST !	! ! 0 !	! !	0	! ! M:	ID.	! ! 0 !	! ! !
Word 4	! ! !	0	! ! C	:YL	! ! T]	RK	! ! SEC !	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0002B 844-2x (DI). 0003B 844-4x (DJ). 0004B 844-2x (DK). 0005B 844-4x (DL). 0006B 819 (DW).
			0007B 885-1x (DM). 0010B 3330-1 (DX). 0011B 3330-11 (DY).
			0012B 3350 (DZ). 0013B 33502 (DA).
			0014B 885-42 (DB). 0017B 885-1x (DQ). 0070B ECS I-DC135 DDP (DP).
			0071B ECS I-Coupler (DE). 0072B ECS II-DC135 DDP (DP). 0073B ECS II-Coupler (DE).
			0074B ECS I-DC145 DDP (DP). 0075B ECS II-DC145 DDP (DP).
			0076B LCME-Coupler (DE). 0077B UEM (DE). 0110B 834 (DD).
			0111B 836 (DG). 0115B 895 (DC). 0120B 887 (DF).
			0121B 887 (DH). 0172B STORNET
			0207B ESM-Coupler (DE). 0210B ESM-Low speed port (DP).

<u>Field</u>	Word	Location	<u>Description</u>
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59 – 48	EST ordinal of the device.
MID	3	23-12 .	Machine identifier in display code.
CYL	4	35-24	Cylinder containing the media error.
TRK	4	23-12	Physical track containing the media error.
SEC	4	11-0	Physical sector containing the media error.

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PROTATING MASS STORAGE ! ! !	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MSGID	0007в,	0010B, 0014B,	0011B,	! 0005B,! 0012B,! 0110B,! !
! ! 844-2x, 844-4x, 885-1x, ! 7155-401/885-42, 895, 3330-1, ! 3330-11, 3350, 33502, ! 7255/834, 7255/836 !	!!!!!!!!!!!	SYMPTOM	хобов,		X056B,	! X043B,! X063B,! !

6DI, 6DJ, 1HP, 1XM and 1XY will issue the following BML message once per rotating mass storage error. The message is issued whether the error is recovered or unrecovered. This ensures all errors are reported to the last general and detailed status taken.

The message has the following form.

	59	47	41	35	29	23 17	11 0
Word 2	! ! MSGID !	! ! SYM!	PTOM	! ! PP !	! ! CH !	! ! ! O ! UN ! !	! ! ! 0 ! ! !
Word 3	! ! EST !	! ! RTY !	! ! FLG !	! ! CHR !	! ! 0 !	! ! MID !	! ! ! 0 ! ! !
Word 4	! ! EC !	! ! C' !	Y	! ! PT !	! ! PS !	! ! LF !	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Word 5	! !		DETAI	LED STA	IUS (Wo	rds 1-5)	! ! !
Word 6	! !		DETAI	LED STA	IUS (Wo	rds 6-10)	! !
Word 7			DETAI	LED STA	IUS (Wo	rds 11-15)	! ! !
Word 8	! ! !		DETAI	LED STA	TUS (Wo	rds 16-20)	

Field	Word	Location		Description
MSGID	2	59–48	Message i	dentifier. 844-2x (DI).
			0002B	844-4x (DJ).
			0003B	844-4x (DS).
			0004B	844-4x (DL).
				885-1x (DM).
			001 OB	3330-1 (DX).
			0011B	3330-11 (DY).
			0012B	3350 (DZ).
			0013B	33502 (DA).
			0014B	7155-401/885-42 (DB).
			0017B	885-1x (DQ).
			0110B	834 (DD).
			0111B	836 (DG).
			0115B	895 (DC).
SYMPTOM	2	47-36	Symptom c	ode.
			X023B	Channel Failure.
			X024B	Channel parity error
•				(detected by 6DI, 1HP).
		•	X040B	Parity error
				(detected by 6DI, 1HP).
			X043B	Device not ready
				(detected by 6DI, 1HP).
			X050B	Firmware dead
				(detected by 6DI, 1HP).
			X051B	Cannot autoload controller
				(detected by 6DI, 1HP).
			X056B	Unit reserve error
				(detected by 6DI, 1HP).
		•	X063B	RAM parity error
				(detected by 6DI, 1HP).
			X100B	Address error
				(detected by 6DI, 1HP).
			X102B	Status error
				(detected by 6DI, 1HP).
•			X103B	Controller reserve error
				(detected by 6DI, 1HP).

<u>Field</u>	Word	Location	Description
PP	2	35-30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected. Not meaningful for symptom code X100B (address error).
UN	2	17-12	Physical unit number of the unit on which the error was detected. Not meaningful for symptom code X100B (address error).
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Retry count.
FLG	3	41-36 (41-38) (37)	Flag field. Reserved (zero). Set if write operation; clear if read operation.
		(36)	Set if unrecovered error, clear if recovered error.
CHR	3	35–30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
CY	4	47-36	Cylinder.
PT	4	35–30	Physical Track.
PS	4	29-24	Physical Sector.
LF	4	23-12	Last function issued before a function timeout. Valid only for symptom codes XO24B, XO50B, XO51B, and XO63B.

<u>Field</u>	Word	Location	Description
GS	4	11-0	General status. See the CDC 7155 Disk Storage Subsystem Reference Manual, 7155-401 Disk Storage Subsystem Hardware Reference Manual, and 65206-2 FSC Hardware Reference Manual for more information on the format of general status.
DETAILED STATUS	5-8	59-0	Detailed status. See the CDC 7155 Disk Storage Subsystem Reference Manual, 7155-401 Disk Storage Subsystem Hardware Reference Manual, and 65206-2 FSC Hardware Reference Manual for more information on the format of detailed status. If all four words are zero, the detailed status is not available.
			There is no detailed status in the case of an address error (SYMPTOM X100B).

! - ! !	ROTATING MASS STORAGE	! ! !	MSGID	0006в]! ! !
! ! !_	819	! ! !	SYMPTOM	X101B,	X102B,	X103B,	X104B	! ! !

The first message has the following form.

	59	47 41	35 29	23 17	11 0
Word 2	! ! 0006B !	! ! SYMPTOM !	! ! ! FP ! CH ! !	! ! ! O ! UN ! !	! ! ! 0 ! !!
Word 3	EST	! ! ! RTY ! FLG ! !	! ! ! CHR ! ! !	0	! ! !
Word 4	PPID	! COUNT !	! ! C1 !	! ! C2 !	! C3 ! ! C3 !
Word 5 !	C4	! ! C5 !	! ! C6 !	! ! C7 !	! C8 ! ! !
Word 6	C9	! ! Dl !	! ! D2 !	! ! D3 !	! D4 ! ! D4 !
Word 7	D5	! ! El !	! ! E2 !	! ! E3 !	! El ! ! El !

Continuation messages have the following form.

	59	47 41	35	29	23	17	11 0
Word 2	! ! 0006в !	! ! SYMPTOM !	! ! FP !	! ! CH !	! ! 0 !	! ! UN !	! ! 0 ! !!
Word 3	! ! EST	! ! ! RTY ! FL ! !	! G ! FP !	! ! !		0	
Word 4	PPID	! ! 0 !	!!!	E2	! ! !	E3	! ! E1 !
Word 5	E2	! ! E3 !	! ! !	E1	! ! !	E2	! ! E3 !
Word 6	E1	! ! E2 !	! ! !	E3	! !	E1	! ! E2 !
Word 7 !	E3	! ! E1 !	! ! !	E2	! ! !	E3	! ! ! 0 ! !

<u>Field</u>	Location	Description
SYMPTOM	47-36	Symptom code. X101B Unrecovered data error. X102B Recovered data error. X103B Hardware error. X104B Software error.
FP	35-30	First level PP (FLPP) number.
СН	29-24	FLPP data channel (2 or 6).
UN	17-12	Unit number.
EST	59-48	EST ordinal.
RTY	47-42	Retry count.
FLG	41-36 (41-40) (39)	Flag field. Reserved (zero). Set if second message of pair; clear if first message of pair.
	(38)	Set if first message of pair; clear if second
	(37)	message of pair. Set if write operation; clear if read
	(36)	operation. Set if unrecovered error; clear if recovered error.
CHR	35-30	Recovery channel.
PPID	59 – 48	Input register address.
COUNT	47-36	Error data byte count.
C1	11 10 9 8 7 6 5 4 3 2 1	Request aborted. Unrecovered data transfer error. Operation completed successfully. Controller dies (no resume on control channel). No resume to record flag sent to disk. Slave aborted the request. Unit never comes on-cylinder. Unit down. Channel down. Request parameter error. Hardware error. Partner died.

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<u>Field</u>	Location	Description
C2	11-6	Function code. 0: Read. 1: Write. 2: Write check.
	5	Write position verify.
	4-0	Physical unit number. Bits 0-1: Physical unit address. Bit 2: 0-Primary controller. 1-Secondary controller.
C3	9-0	Cylinder address.
C4	11-0	Device type. 0: DV device. 1: DW device.
C5	11-0	Total number of PP error packet words.
C6	9-6	Head group.
	4-0	Starting sector.
C7	6-0	Sector count. Number of sectors to transfer for request.
C8	11-10	Previous request on this unit.
	9 - 0	Previous cylinder address.
С9	9-6	Previous head group.
	4-0	Previous starting sector.
D1	11	Slave encountered error.
- -	10	Error during read/write of data. See controller status for type of error.
	9	Not-on-cylinder status occurred without previous position function.
	8	Unused.
	7	Subsystem busy.
	6	Error correction attempted. Fields E1, E2, and E3 are defined by F1, F2, and F3 below. These fields can be repeated.

Field	Location	Description
	5	Unit not ready (maximum includes fields El and E2).
	4	Bad header address. Unit, track, head or sector in header is not desired position (includes fields El and E2).
	3	Cylinder address in cylinder status is not desired cylinder (includes field El).
	2	Head address in head status is not desired head (includes field El).
	1	Unit number in controller status is not desired unit or controller error during seek.
	0	Seek error.
D2 .	11-0	Subsystem status.
D3	11-0	Controller status (if controller error).
D4	9 - 0	Retry count. From this value the succeeding offset position or read strobe position can be computed.
D5	9-6	Head group expected.
	4-0	Sector address expected.

The format of the E1, E2, and E3 fields depends on the data returned in D1. See the description of D1 to determine which definition of E1, E2, and E3 applies.

<u>Field</u>	Location	Description
E1	11-0	Cylinder and/or head status, if bad. First word of header, if bad unit fault status.
E2	11-0	Interlock status or head and sector in header, if bad.
F1		Error code l status.
F2		Error code 2 status.
F3		Error code 3 status.

5-12 60459940 E

! UNIT RECORD EQUIPMENT!!	! MSGID 0020B, 0021B, 0022B, 0023B, ! 0024B, 0025B, 0026B, 0027B, ! 0030B, 0031B, 0032B
! INCOMPLETE DATA TRANSFER !	! SYMPTOM 0005B

	59	47	41	35	29	23 1	7 11	0
Word 2	! ! MSGID !	! ! 000 !)5B !	! ! PP !	! ! CH !	! ! ! EQ ! ! !	0	! !
Word 3	! ! EST !	! ! RTY ! !	FLG	! ! !	0	! ! MII !	! ! !	0 !
Word 4	! ! BYTE !	! ! (!)	! ! Fl !	INC	! !	0	! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35-30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
RTY	3 ,	47-42	Number of retries attempted.

<u>Field</u>	Word	Location	Description
FLG	3	41 - 36	Flag field. Bit 36 0 - Recovered error. 1 - Unreceovered error.
MID	3	23-12	Machine identifier.
BYTE	4	59-48	Byte count not transferred.
FUNC	4	35-24	Function code.

5-14 60459940 E

!!!!!!!	UNIT RECORD EQUIPMENT	!!!!!!!	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B
!!!!	TRANSMISSION PARITY ERROR	!!	SYMPTOM 0010B

	59	47	35	29	23 17	11	0
. ! Word 2°: !	MSGID	! . ! 0010B !	! ! PP !	! ! CH !	! ! ! EQ ! ! !	0	! ! !
Word 3 !	EST	! ! !	0		! ! MID !	! ! 0 !	! ! !
Word 4 !	DCCS	! ! EQPS !	! ! FU !	INC	! !	0	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	. 2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59 – 48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	. 4	59-48	DCC status.
EQPS	4	47 - 36	Equipment status.
FUNC	4	35-24	Function code.

! UNIT RECORD EQUIPMENT!!	! MSGID 0020B, 0021B, 0022B, 0023B, ! 0024B, 0025B, 0026B, 0027B, ! 0030B, 0031B, 0032B !
! CHANNEL PARITY ERROR !	! ! SYMPTOM 0024B !

	59	47	41	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 002 !	24B	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	! ! !
Word 3	! ! EST !	RTY	FLG	! ! !	0	! !	MID	! ! C	! ! !
Word 4	! ! (0		! ! F'	UNC	! ! !		0	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35-30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
RTY	3	47-42	Number of retries attempted.

5-16 60459940 E

<u>Field</u>	Word	Location	Description
FLG	3	41-36	Flag field. Bit 36 0 - Recovered error. 1 - Unrecovered error.
MID	3	23-12	Machine identifier.
FUNC	4	35-24	Function code.

! UNIT RECORD EQUIPMENT!!	! MSGID 0020B, 0021B, 0022B, 0023B, ! 0024B, 0025B, 0026B, 0027B, ! 0030B
!	!
! FUNCTION REJECT	! SYMPTOM 0025B
!	!

	59	47	35	29	23 17	11	0
Word 2	! ! MSGID !	! ! 0025B !	! ! PP !	! ! CH !	! ! ! EQ ! ! !	0	!!
Word 3	! ! EST !	! ! !	0		! ! MID !	! 0	-! ! !
Word 4	! DCCS	! ! EQPS !	! ! F !	UNC	! ! !	0	-! ! !

<u>Field</u>	Word	Location	Description
MSGID	2	59 – 48	Message identifier. 0020B 405 0021B 415 0022B 412 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47-36	Equipment status.
FUNC	4	35–24	Function code.

! UNIT RECORD EQUIPMENT!!	! MSGID 0020B, 0021B, 0022B, 0023B, ! 0024B, 0025B, 0026B, 0027B, ! 0030B, 0031B, 0032B !
! ! EQUIPMENT ON/OFF!	! ! SYMPTOM 0027B, 0030B, 0031B, 0032B! !

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! SYMPTOM !	! ! PP ! !	CH	! ! EQ !	! ! !	0	!!!
Word 3	! ! EST !	! ! ()		! ! M !	ID	! ! 0 !	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
SYMPTOM	2	47-36	Symptom code. 0027B Equipment turned off by operator. 0030B Equipment turned off by system. 0031B Equipment turned on by operator. 0032B Equipment turned on by system.
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.

<u>Field</u>	Word	Location	Description
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.

! ! ! ! !	UNIT RECORD EQUIPMENT	! MSGID 0020B, 0021B, 0022B, 0023B, ! 0024B, 0025B, 0026B, 0027B, ! 0030B
!	CONTROLLER HUNG BUSY	! ! SYMPTOM 0044B !

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 0044B !	! ! PP !	! ! CH !	! ! EQ !	! !	0	! ! !
Word 3	! ! EST	! ! !	0		! ! M	ID . !	0	! ! !
Word 4	! ! ()	! ! FUI !	NC	! !	()	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
FUNC	4	35-24	Function code.

! ! UNIT RECORD EQUIPMENT !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
! ! !! !! !! !!	SYMPTOM 0050B

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 0050B !	! ! PP !	! ! CH '	! ! EQ !		0	! ! !
Word 3	EST	! ! !	0		! ! MI !	. ! .D ! !	0	! ! !
Word 4	!	0	! ! F' !	UNC	! ! !	0)	! ! !

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
FUNC	4	35-24	Function code.

! ! UNIT RECORD EQUIPMENT ! ! ! ! ! !	MSGID 0020B, 0021B, 0022B, 0023B, 9024B, 0025B, 0026B, 0027B, 9030B, 0031B, 0032B
! ACCOUNTING DATA ! ! !	SYMPTOM 0100B

	59	47	35	29	23	17 11	0
Word 2	! ! MSGID !	! ! 0100B !	! ! 0 !	! ! CH !	! ! EQ !		0 !
Word 3	! ! EST !	! ! !	0		! ! M:	! ID ! !	0 !
Word 4			(COUNT			! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
COUNT	4	59-00	Integer count of lines printed, cards read, or cards punched.

!	UNIT RECORD EQUIPMENT	!!!	! MSGID 0020B, 0021B !
! ! !	COMPARE ERROR	!!!!!	SYMPTOM 0101B !

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 0101B !	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	!!
Word 3	! ! EST !	! ! !	0		! ! M !	IID	! ! 0 !	! ! !
Word 4	! ! DCCS	! ! EQPS !	! ! !			0	·	! ! !

<u>Field</u>	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59 - 48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47-36	Equipment status.

!!!	UNIT RECORD EQUIPMENT	! ! MSGID 0021B !
!!!	FEED FAILURE	! ! SYMPTOM 0102B !

	59	47	35	29	23	17	11	0
Word 2	! ! 0021B ! !!	0102B	! ! PP !	! ! CH !	! ! EQ !	! !	0	! ! !
Word 3	EST	0		! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		! ! 0 !	—! ! !	
Word 4	DCCS !	EQPS	! ! !	. 0			! ! !	

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	. 4	47-36	Equipment status.

!!!!	UNIT RECORD EQUIPMENT	! ! MSGID 0026B, 0027B, 0030B !	-! !
!!!!	PFC ERROR	! ! SYMPTOM 0102B !	!!!!

	59	47	35	29	23 17	11 0
Word 2	! ! MSGID !	! ! 0102B !	! ! PP !	! ! CH !	! ! ! EQ ! ! !	0 ! !
Word 3 ·	! EST	! ! !	0		! ! MID !	! ! 0 ! ! !
Word 4	DCCS	! ! EQPS !	! ! !	0	! ! STAT !	! ! ! 0 ! ! !

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47 - 36	Equipment status.
STAT	4	23-12	Maintenance status.

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!	UNIT RECORD EQUIPMENT	MSGID 0022B, 0023B, 0024B, 0025B, 9026B, 0027B, 0030B, 0031B, 0032B
!!!!	PRINT ERROR TOTAL	SYMPTOM 0103B

	59	47	35	29	23	17	11	0
Word 2	! ! MSGID !	! ! 0103B !	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	! ! !
Word 3	! ! EST !	! ! 0 !			! ! !	IID	! ! 0 !	! ! !
Word 4	! ! !	COUNT						! ! !

Field	Word	Location	Description
MSGID	2	59 – 48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35 - 30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
COUNT	4	59-0	Number of print errors.

! UNIT RECORD EQUIPMENT!	! MSGID 0022B, 0023B, 0024B, 0025B, ! 0026B, 0027B, 0030B ! !
PRINT ERROR	! ! SYMPTOM 0101B ! !

	59	47 41	35	29	23	17 11	0
Word 2	! ! MSGID !	! ! 0101B !	! ! PP !	! ! CH !	! ! ! EQ ! ! !		0 !
Word 3	EST	! !! ! RTY ! F ! !	! LG ! !	0	! ! MI !	! :D ! !	0 !
Word 4	DCCS	! ! EQPS !	! ! !		C)	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35 - 30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59 – 48	EST ordinal of the equipment.
RTY	3	47 - 42	Number of retries attempted.
FLG	3	41-36	Flag Field. Bit 36 0 - Recovered error. 1 - Unrecovered error.
MID	3	23-12	Machine identifier.
DCCS	4	59 - 48	DCC status.
EQPS	4	47 - 36	Equipment status.

!!!!!	TAPE UNIT	!!!!!!	MSGID 0042B, 0044B, 0045B, 0052B, 0053B, 0054B, 0056B, 0057B	!!!!!!
!!!	CORRECTED TAPE ERRORS	!!!	SYMPTOM 0100B	!!!

This message is issued by MAGNET/lMT when a tape is returned or unloaded. This message indicates how many errors were encountered on the tape.

	59	47	41	35	29	23	17	11 0
Word 2	! ! MSGID !	! ! 0100B !	!	! ! PP !	! ! CH !	! ! EQ !	! ! UN !	! ! ! 0 ! ! !
Word 3	! ! EST !	! ! !				0		!
Word 4		VSN				! !	0	! RN !
Word 5	! ! LDI !	E	! ! !	WE		! ! 0 !	! ! !	RE !

<u>Field</u>	Word	Location	Description
MSGID	2 .	59-48	Message identifier. 0042B MTS 7-Track 0044B ATS 7-Track 0045B FSC 7-Track 0052B MTS 9-Track 0053B CMTS 9-Track 0054B ATS 9-Track 0056B FSC 9-Track 0057B ISMT 9-Track
PP	2	35-30	PP number.
СН	2	29-24	Channel number.
EQ	2	23-18	Equipment number.
UN	2	17-12	Unit number.
EST	3	59 - 48	EST ordinal.
VSN	4	59-24	Volume serial number.
RN	4	11-0	Reel number.
LDE	5	59-42	Late data errors.
WE	5	41-24	Corrected write errors.
RE	5	17-0	Corrected read errors.

!	MDI !	MSGID	0065в
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	INITIALIZATION ERROR	SYMPTOM	0051B

This BML message is issued if an unrecovered error occurs while initializing an MDI, the CDCNET component known as a mainframe device interface.

	59	47	41	35	29	27	23	11	0
Word 2	! ! 0065B !	! ! C !	0051B	! ! 0 !	! ! CI !	! ! !		0	! ! !
Word 3 !	EST	! ! 0 !	! ! FLG !	! ! !	0	! ! !	MID	! ! 0 · !	! ! !
Word 4					DS				! ! !
Word 5			•	·	DS	-			! ! !
Word 6					DS				! ! !
Word 7	,	DS		!!	0	! ! !	VER	! ! GS !	! ! !

Field	Word	Location	Description
СН	2	29-24	Channel on which the error was detected.
EST	3	59-48	EST ordinal of the equipment.
FLG	3	41-36 (37)	Flag field. Set to indicate unrecovered error.
MID	3	23-12	Machine identifier.
DS	4 5 6 7	59-0 59-0 59-0 59-32	MCI detailed status. MCI detailed status. MCI detailed status. MCI detailed status.
VER	7	27-12	Version number of the software to be loaded.
GS	7	11-0	MCI general status.

!	6683 SATELLITE COUPLER	MSGID	0067в	!
!	RECEIVE BLOCK LENGTH ERROR !	SYMPTOM	0005в	!

The following message is issued to report errors with the 6683 Satellite Coupler.

	59	47		35		2	9	23		17	11		0
Word 2	! ! 0067B !	! ! !	0005в	!!!!	PP	! ! !	СН	!!!	EQ	!	0		! ! !
Word 3	! ! EST !	!!	•					0					-! ! !
Word 4	! ! !		0					! ! !		BN	! ! !	BE	! ! _!

<u>Field</u>	Word	Location	Description
PP	2	35-30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
BN	4	23-12	Octal number of bytes not received.
BE	4	11-0	Octal number of bytes expected.

!	!	0067В	!
! 6683 SATELLITE COUPLER	! MSGID		!
!	!		!
! ERROR CONDITION !	! ! SYMPTOM !	0011B, 0076B, 0102B, 010 0104B, 0105B, 0106B	3B ! !

The following message is issued to report errors with the 6683 Satellite Coupler.

	59	47	35	29	23	17	11	0
Word 2	! ! 0067B !	! ! SYMPTOM !	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	! ! !
Word 3	! ! EST !	! ! !		0				! ! !

<u>Field</u>	Word	Location	Description
SYMPTOM	2	47 – 36	Symptom code. 0011B Hardware/software failure. 0076B Undefined error. 0102B Channel left active. 0103B Send transmission broken. 0104B Receive block invalid. 0105B Invalid control/length byte. 0106B Coupler/channel test failed.
PP	2	35-30	PP number.
СН	2	29-24	Channel number.
EQ	2	23-18	Equipment number of 6683.
EST	3	59-48	EST ordinal of 6683.

! 6683 SATELLITE COUPLER !	! ! MSGID !	0067в
! INVALID COUPLER STATUS !	! ! SYMPTOM !	0101B

The following message is issued to report errors with the 6683 Satellite Coupler.

	59	47	35	29	23	17	11	0
Word 2	! ! 0067B !	! ! 0101B !	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	!!!
Word 3	! ! EST !	! !	-		0			-! ! !
Word 4	! ! !						! ! ES !	_! ! !

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
ES	4	11-0	Bad status as returned by the coupler.

! ! !	EXTENDED MEMORY	! ! !	MSGID	0070B, 0210B,	0074В,	! 0075B,! !
!	ERROR DETECTED BY 6DP	! ! !	SYMPTOM	х040в		! ! !

6DP issues the following message when a PP detects a parity error while transferring data to or from extended memory via a DDP/low speed port.

	59	47	41	35	29	23	11	. 0
Word 2	! ! MSGID !	! ! X0 !	40B	! ! PP !	! ! CH !	! ! !	0	! ! !
Word 3	! EST	! ! RTY !	! ! FLG !	! ! CHR !	! ! 0 !	! ! MI:	! D ! (!	
Word 4	! ! EC !	! ! !			0			! ! !
Word 5	FLAGS	! ! STA !	TUS	! ! W !	CNT	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	EM ADDR	. ! !
Word 6		FIRST DATA						
Word 7				SEC	OND DATA	Α		!

<u>Field</u>	Word	Location	Description
MSGID	2	59 - 48	Message identifier.
			0070B ECS I (DC135 DDP).
			0072B ECS II (DC135 DDP).
			0074B ECS I (DC145 DDP).
			0075B ECS II (DC145 DDP).
			0172B STORNET.
			0210B ESM (Low speed port).

<u>Field</u>	Word	Location	Description
PP	2	35 - 30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected. Not meaningful for symptom code X100B (address error).
EST	3	59 – 48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37)	Flag Field. Reserved. Set if write operation; clear if read operation.
		(36) ·	Set if unrecovered error; clear if recovered error.
CHR	3	35–30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
FLAGS	5	59-48 (59-50) (49) (48)	Flag Field. Reserved. Set if SECOND DATA is present; clear if not. Set if FIRST DATA is present; clear if not.
STATUS	5	47 - 36	Status received back from a 5004 DDP function. This status is taken immediately after a single word read or write. The status indicates whether the operation was or was not successful. If unsuccessful, the status attempts to explain the problem.
WCNT	5	35-24	If WCNT is greater than 1, it is the number of words in the block being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. If WCNT is equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

<u>Field</u>	Word	Location	Description
FIRST DATA	6	59-0	This field shows bad data received on the initial read of recovered parity errors. Data received on the initial read of unrecovered parity errors is also shown, but it is not known if the data is bad or good. This field also shows data for parity errors the driver tried to write to EM.
SECOND DATA	7	59-0	This field shows good data received on the retry of recovered parity errors, and bad data received on the retry of unrecovered parity errors.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	EXTENDED MEMORY	! ! MSGID !	0070B, 0210B,		0074B,	! 0075B,! !
!!!	ERRORS DETECTED BY 6DP	SYMPTOM	хо50в,	х100в,	Х102В	! ! !

6DP issues the following message when a PP detects an error other than a parity error while transferring data to or from extended memory via a DDP.

	59	47	41	35	29	23	11	0
Word 2	! ! MSGID !	! ! SYMI !	PTOM	! ! PP !	! ! CH !	! ! !	0	· ! !
Word 3	EST	! ! RTY !	! ! FLG !	! ! CHR !	! ! 0 !	! ! MID !	! ! !	0 !
Word 4	EC	!	-		0			! ! !
Word 5 !	RESERVED	! ! ST <i>!</i> !	ATUS	! ! WC1	NT	! ! !	EM ADDR	! ! !

<u>Field</u>	Word	Location	Description
MSGID	2	59-48	Message identifier.
			0070B ESC I (DC135 DDP).
			0072B ECS II (DC135 DDP).
			0074B ECS I (DC145 DDP).
			OO75B ECS II (DC145 DDP).
•			0172B STORNET.
			0210B ESM (Low speed port).
SYMPTOM	2	47-36	Symptom code.
			X050B Firmware dead
1			(detected by 6DP).
			X100B Address error
			(detected by 6DP).
			X102B Status error
			(detected by 6DP).
PP	2	35-30	PP that detected the error.
СН	2 .	29-24	Channel on which the error was
			detected. Not meaningful for symptom code X100B (address error).
EST	3	59-48	EST ordinal of the device.

<u>Field</u>	Word	Location	Description
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37)	Flag field. Reserved. Set if write operation; clear if read operation. Set if unrecovered error; clear if
			recovered error.
CHR	3	35–30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
STATUS	5	47 – 36	Status received back from a 5004 DDP function. This status is taken immediately after a single word read or write. The status indicates whether the operation was or was not successful. If unsuccessful, the status attempts to explain the problem.
WCNT	5	35–24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

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!!!!!	EXTENDED MEMORY	! ! ! !	MSGID	0071B, 0207B	0073В,	0076в,
!	ERRORS DETECTED BY 6DE	! ! !	SYMPTOM	х040в,	х100в	

 $6\mathrm{DE}$ issues the following message when the PIOM monitor function has reported an unrecoverable error on a DE device. The PIOM function returns the status in the STATUS field.

	59	47 4	1	35	29	23		11	0
Word 2	! ! MSGID !	! ! SYMPT !	! ! MO'! !	PP	! ! !		0		! ! !
Word 3	! ! EST !	! !! ! RTY !!!	! FLG ! !		0	! ! !	MID	! ! !	0 !
Word 4	! ! EC !				0				! ! !
Word 5	! ! RESERVED !	! ! STATU !	! S !	W	CNT	! ! !	EM A	DDR	!

<u>Field</u>	Word	Location	Description
MSGID	2	59-48	Message identifier. 0071B ECS I (Coupler). 0073B ECS II (Coupler). 0076B LCME. 0207B ESM (Coupler).
SYMPTOM	2	47 - 36	Symptom code. X040B Parity error. X100B Address error.

Field	Word	Location	Description
PP	2	35 - 30	PP that detected the error.
EST	3	59 – 48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37) (36)	Flag field. Reserved. Set if write operation; clear if read operation. Set if unrecovered error; clear if recovered error. Currently, this is always set, since all errors reported are unrecovered.
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
STATUS	5	47–36	Status returned from CPUMTR when error occurred. 1 Unrecoverable hardware error (UHES). 4 Unrecoverable parity error (UPES).
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beinnning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

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! ! EXTENDED MEMORY ! ECS I, ECS II, LCME, ESM !	! ! MSGID !	9070B, 0071B, 0072B, 0073B,! 0074B, 0075B, 0076B, 0207B,! 0210B
! ERRORS DETECTED BY 1MC AND ELM !	SYMPTOM	ХО4ОВ ! !

Both IMC and ELM issue the following message when an extended memory parity error occurs. IMC reports errors detected by CPUMTR, and ELM reports errors detected by user programs while writing to or reading from user extended memory.

	59	47	41	35		23	17	11	0
Word 2	! ! MSGID !	! ! X04 !	•OB	! ! !			.0		! ! !
Word 3 !	EST	! ! RTY !	! ! FLG ! .	! ! !	0	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MID	! ! · 0 !	! !
Word 4 !	EC	! ! !			0		! ! !	CM ADDR	! ! !
Word 5 !	FLAGS	! ! RESE !	ERVED	! ! !	WCNT	!!!!	EM	ADDR	! !
Word 6 !				F	IRST DA	ιTΑ			! ! !
Word 7 !				SE	COND D	ATA			! ! !

<u>Field</u>	Word	Location		
MSGTD	2	59-48		

Description

Message identifier. The error occurred on the coupler path to extended memory, even if the device is defined with a DDP.

```
0070B ECS I (DC135 DDP).
0071B ECS I (Coupler).
0072B ECS II (DC135 DDP).
0073B ECS II (Coupler).
0074B ECS I (DC145 DDP).
0075B ECS II (DC145 DDP).
0076B LCME.
0207B ESM (Coupler).
0210B ESM (Low speed port).
```

Field	Word	Location	Description
EST	3	59 - 48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37)	Flag field. Reserved. Set if write operation; clear if read operation.
		(36)	Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
CM ADDR	4	17-0	Address in central memory to which or from which the EM transfer was supposed to occur.
EC	4	59-48	Error code.
FLAGS	5	59-48 (59-50) (49)	Flag field. Reserved. Set if SECOND DATA is present; clear if not.
		(48)	Set if FIRST DATA is present; clear if not.
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

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<u>Field</u>	Word	Location	Description
FIRST DATA	6	59-0	This field shows bad data received on the initial read of recovered parity errors. Data received on the initial read of unrecovered parity errors is also shown, but it is not known if the data is bad or good. This field also shows data for parity errors the driver tried to write to EM.
SECOND DATA	7	59-0	This field shows good data received on the retry of recovered parity errors, and bad data received on the retry of unrecovered parity errors.

!	EXTENDED MEMORY (UEM)	! ! MSGID !	0077в	!!!
!	ERRORS DETECTED BY 6DX	! ! SYMPTOM !	Х100В	!

 $6\mathrm{DX}$ issues the following message when an address error occurs while attempting to read or write UEM.

	59	47	41	35	29	23		11	0
Word 2 !	0077B !	X1	00в	! ! PP !	! ! !		. 0		! ! !
Word 3 !	EST !	! ! RTY	! ! FLG !	! ! !	0	! ! !	MID	! ! !	0 !
Word 4 !	EC !				0				! ! !
Word 5 ! !		0		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	WCNT	! ! !	EM	ADDR	! !

<u>Field</u>	Word	Location	Description
PP	2	35-30	PP that detected the error.
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (40-38) (37)	Flag field. Reserved. Set if write operation; clear if read operation. Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, the EM ADDR is the actual address where the error occured.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

! ! MSE (7990) !	! ! MSGID !	0105в				-! ! !
!	!					-!
! FSC ERRORS	! SYMPTOM	0001B,	0002B,	0003B,	0004B	!
!	1	0005B,	0006В,	0007В,	0010B	!
!	!	0011B,	0012B,	0020B,	0021B	!
!	!	-	0023B,	-		
!	!	•	0027B,	-		
!	!	0032B,		•		!
!	!					_!

	59	47	35	29	23	11	5 0
Word 2	! ! 0105B !	! ! SYMPTOM !	! ! 0 !	! ! CH !	! ! 0 !	! ! UN !	! ! DRD ! ! ! !
Word 3	! ! EST !	!!!	0		! ! MID !	! ! !	! 0 !
Word 4	! ! !		0				! !
Word 5	! !		0				!
Word 6	! ! !	GS			! !	DS	! !
Word 7	! !		DS	3			!
•	! ! !		•		<u> </u>		!
Word 10	! ! !		DS	3			! !

Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0001B Invalid function. 0002B Data length error. 0003B Control word error. 0004B Buffer argument error. 0005B Header/trailer error. 0006B End of volume. 0007B Invalid unit number. 0010B Buffer timeout error.

<u>Field</u>	Word	Location	Description (Continued)
			O011B Tape bottom right. O012B Terminate flag detected. O020B Status error. O021B Channel hung on input. O022B Channel hung on output. O023B Function timeout. O024B No end of operation. O025B Channel malfunction. O025B Channel parity error. O027B FSC memory parity error. O030B FSC not running. O031B FSC abnormal. O032B FSC diagnostic failure. O033B Checksum error (CM drivers).
СН	2	29-24	Primary channel used.
UN	2	11-6	Unit number of an SM.
DRD	2	5-0	DRD unit number.
EST	3	59 – 48	EST ordinal of controller.
MID	3	23-12	Machine identifier.
GS	6	59-24	FSC general status and detailed status origin words.
DS	6	23-0	First two bytes of 7990 detail status.
DS	7-10	59-0	Reminder of 7990 detailed status. The 7990 detailed status consists of 18-8 bit parcels. Each parcel is packed into a 12-bit byte.

!	!	0106В	-!
! MSE (7990)	! MSGID		!
!	!		!
! FSC ERRORS !!!	! SYMPTOM ! !	0036B, 0060B, 0100B, 0101B 0103B, 0104B, 0107B, 0140B 0141B	

	59	47	35	29	23	11		0
Word 2	! ! 010 <u>,</u> 6B !	! ! SYMPTOM !	! ! 0 !	! ! CH !	! ! !	0		! ! !!
Word 3	! ! EST !	! ! !	0		! ! MID !	! ! !	0	! ! !
Word 4	! ! !		7990	ERROR LO	G MESSAGE			! ! !
Word 5	! ! !		7 990	ERROR LC	G MESSAGE			! ! !
•	!			•				! ! !
Word 20	! ! !		7 9 9 0	ERROR LO	G MESSAGE			! ! !
Word 21	! ! 7 !	990 ERROR I	OG MESSA	\GE	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	0		! ! !

<u>Field</u>	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0036B Error log overflow. 0060B CIF, DTI/DTO errors. 0100B DRD, DRC, DIF, DTI/DTO errors (device/diagnostic driver).
			0101B Accessor errors (drive/diagnostic driver).
			0103B Drive/path status change. 0104B ALT DRD, DRC, DIF, DTI/DTO errors (device/diagnostic driver).

Field	Word	Location	Description
			0107B Device driver software error.
			0140B CPU/memory hardware detected errors.
			0141B Software errors.
СН	2	29-24	Primary channel used.
EST	3	59-48	EST ordinal of the controller.
MID	3	23-12	Machine identifier.

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!	MSE (7990)	! ! !	MSGID	0107В	!
!!!!!	USAGE	!!!	SYMPTOM	1200В	!

	59	47	38 35	29	23	11 5	0
Word 2	! ! 0107B !	! ! 1200B !	! ! 0 !	! ! CH !	! ! 0 !	! !! ! UN ! D ! !	! RD ! !
Word 3	! ! EST !	! ! !	0		! ! MID !	! ! 0 !	! ! !
Word 4	! ! 0 !		! ! ! Y ! Z ! !	! ! !	0		! ! !
Word 5	! ! CCOD !	! ! !	C	SND			! ! !
Word 6	! !		BUFF	ERED LOC	3		! ! !
•				•			! ! !
Word 25	! ! !		BUFF	ERED LOC	3		! ! !

Field	Word	Location	Description
СН	2	29-24	Primary channel used.
UN	2	11-6	SM unit number.
DRD	2	5-0	DRD unit number.
EST	3	59 – 48	EST ordinal of the controller.
MID	3	23-12	Machine identifier in display code.
Y	4	38-34	Vertical coordinate cartridge location.
Z	4	33-30	Horizontal coordinate cartridge location.
CCOD	5	59-48	Identifier letter of the cartridge maker (I=IBM).
CSND	5	47-0	Cartridge serial number in display code.

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!	ROTATING MASS STORAGE	! ! !	MSGID	0110B, 0111B	! !
!	834, 836	!!!	SYMPTOM	0200В	!

If an unrecoverable error meeting special criteria is detected on an 834 or 836 drive, a power up drive function is used to initiate the level 1 diagnostics in the control module. The NOS driver 6DJ will issue the following message to the BML after the power up drive function is completed.

The message has the following form.

	59	47	41	35	29	23	17	11 0
Word 2	! ! MSGID !	! ! 0: !	200в	! ! PP !	! ! CH !	!!!	! 0 ! UN !	! ! ! 0 ! ! !
Word 3	! ! EST !	! ! RTY !	! ! FLG !	! ! !	0	! ! !	MID	! ! ! 0 ! ! !
Word 4	! ! !		•	0				! !! ! GS !!
Word 5	! ! !		DETA	ILED ST	TATUS (Words	1-5)	! ! !
Word 6	! ! !		DETA	ILED ST	TATUS (Words	6-10)	! ! !
Word 7	! ! !		DETA	ILED ST	TATUS (Words	11-15)	! ! !
Word 8	! ! !		DETA	ILED SI	CATUS (Words	16-20)	! ! !

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0110B 834. 0111B 836.
PP	2	35-30	PP that detected the error.
СН	2	29–24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59 – 48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37)	Flag field. Reserved. Set if write operation; clear if recovered error. Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
GS	. 4	11-0	General status. If zero, then no errors were detected. See the 834 or 836 Intelligent Small Disk Subsystem Hardware Reference Manual for more information on the format of general status after Level 1 diagnostics have been run.
DETAILED STATUS	5-8	59 - 0	Detailed status. See 834 or 836 Intelligent Small Disk Subsystem Hardware Reference Manual for more information on the format of detailed status after Level 1 diagnostics have been run.

! ! !	ROTATING MASS STORAGE	! ! !	MSGID: 0120B, 0121B !
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	887	! ! !	SYMPTOM: 0015B

The following message is issued to the BML by lMP whenever lHY downs a channel as a result of attempting to recover from an uncorrected error.

	59	47	35	29	23	17	11	5	0
Word 2	! MSGID!	! ! SYMPTOM !	! ! CPP !	! ! CCH !	! ! EQ	! ! UN !	! ! PT !	! ! 0 !	 ! !
Word 3	! ! EST !	! ! !	0		! ! M	ID	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	0	: ! !

Field	Word	Location	Description
MSGID	2	59–48	Message ID
SYMPTOM	2	47-36	Symptom Code. 0015B Channel downed by system.
CPP	2	35-30	Concurrent PP that reported the error.
ССН	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
MID	3	23-12	Machine ID.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ROTATING MASS STORAGE	!!!	MSGID: 0120B, 0121B	- ! !
!	887	!!!	SYMPTOM: 0030B	!

The following message is issued to the BML by 1HY whenever the system turns off equipment as a result of attempting to recover from an uncorrected error.

	59	47	35	29	23	17	11	5	0
WORD 2	! ! MSGID !	! ! SYMPTOM !	! ! CPP !	! ! CCH !	! ! EQ	! ! UN !	! ! PT !	! ! 0 !	! ! !
WORD 3	! ! EST !	! !	0		! ! M	ID	! ! !	0	! ! !

Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0030B Equipment turned off.
CPP	2	35-30	Concurrent PP that reported the error.
ССН	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
MID	3	23-12	Machine ID.

!!!!!!	ROTATING MASS STORAGE	! ! MSGID: !	0120в,	0121В	- ! !
!!!!	887	! ! SYMPTOM:	0100В,	0105в	!!!

The following BML message is issued by the 887 driver, 1HY, whenever an error is encountered by the disk. Additional BML messages containing first failure data may follow this BML message. The EST and RTRY field may be used to group the messages.

	59	47 42	35 29	23 17	11 6 0
Word 2	! ! MSGID !	! ! SYMPTOM !	! ! ! CPP ! CCH ! !		! ! ! ! PT ! O ! ! ! !
Word 3	! ! EST !	! ! ! RTRY! FLG ! !	! ! 0 !	! ! MID !	! ! ! 0 ! ! !
Word 4			! STATUS ! FAULT !		! FINAL ! ! FAULT ! ! .
Word 5	! ! 0 !	! ! RBC !	! ! STC !	! ! CYL !	! ! ! ! ! TK ! SC ! ! ! !
Word 6	! ! ES !	! ! IDL:	! E ! !	BSR	! ! !! ! LSC ! ! !
Word 7	! ! !LSC! L	! CF ! !	ERROR	! ! ! 0 ! ! !	OPER !
Word 10	! ! ! 0 ! F ! !	! CONTROL!	! ! !	0	! ! !
Word 11	! ! 0 !	! ! !		TREG	! ! !
Word 12	! ! DSO !	! ! Di !	! 51 ! !	DS2	! !! ! DS3 !!
Word 13	! ! !DS3 ! ! !	DS4 !	DS5	! ! DS6 !	! ! !! ! SSO !!
Word 14	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	SS1	! ! SS2 !	! ! S: !	! ! \$3 ! \$\$4 ! ! !
Word 15	! ! SS4 . !	! ! SS5 !	! ! SS !	.6 ! !	SS7 !

Field	Word	Location	. <u>Description</u>
MSGID	2	59–48	Message ID. 0120B = 887 (4K byte sector) 0121B = 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0100B = Driver detected error - recovery in progress. 0105B = Driver detected uncorrected error.
CPP	2	35-30	Concurrent PP that reported the error.
ССН	2	29-24	Concurrent channel used to obtain status. (Channel number is biased by 40B).
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A 1 Port B
EST	3	59 – 48	EST ordinal of failing device.
RTRY	3	47-42	Number of retries already performed by the $887\ \text{driver.}$
FLG	3	41-36 (39) (38) (37) (36)	Flag field. Always clear to indicate last block of message. Always clear to indicate first block of message. Clear if read operation. Set if write operation. Set if unrecovered error. Clear if recovery in progress.
MID	3	23-12	Machine ID.
INITIAL FAUI	T 4	59–48	Initial driver fault code. This code indicates the condition the driver detected. The initial fault code is based solely on the driver's location when it detected the error. No analysis of first failure data is performed. (Refer to the CYBER Systems Peripheral Diagnostic Reference Manual for a description of the fault codes.)

Field	Word	Location	Description
T-REG FAULT	4	47 - 36	If zero, the T-REG field contains valid T-Register information. If non-zero, the T-REG field does not contain valid T-Register information. In this situation, the T-REG FAULT field contains the fault code generated when the T-Register could not be read.
STATUS FAULT	4	35-24	If zero, first failure status was successfully retrieved from the disk. The status includes the disk status (function word 80-86), device status (function words 90-92), the disk error register image, and the disk error log. If an error is encountered by the error processor while this information is being obtained, the fault code associated with this failure is placed in the STATUS FAULT field. If the STATUS FAULT field is non-zero, the disk status and device status are not present. The error processor continues processing the initial error that was encountered.
REC FAULT	4	23-12	If zero, no error was encountered while recovering a specific type of disk error (not ready, media, etc.). If negative zero, no specific error recovery is required or performed for the error that was encountered. If non-zero, specific error recovery failed. In this situation, this field contains the fault code associated with the failure.
FINAL FAULT	4	11-0	This is the final fault code the driver associated with the initial failure. It is based on the initial fault code. However, additional analysis of the first failure data was performed to generate the FINAL FAULT.

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Field	· Word	Location	Description
RBC	5	47-36	Residue byte count associated with incomplete channel transfers. This field contains the number of bytes that were not transferred. This field applies when an Incomplete Data Transfer fault code is reported.
STC	5	35-24	Consecutive sector transfer count since the initial seek. This information is always valid. When used in conjunction with the initial seek parameters, it can be determined where the disk was transferring data to at the time of the failure. This field may be zero if the error was encountered while spinning up or down the drive, or in executing level 1 or level 2 diagnostics.
CYL	5	23-12	Cylinder number of initial seek.
TK	5	11-6	Track number of initial seek.
SC	5	5-0	Sector number of initial seek.
ES	6	59–44	First word of disk status (function word 80) that was last read from the disk.
IDLE	6	43-28	Channel idle status associated with the channel.
BSR	6	27-12	Bit significant response.
LSC	6	11-0	Last command given to the disk before the error was detected.
LSC	7	59–56	Last command given to the disk before the error was detected.
LCF	7	55-40	Last function issued to the channel before error was detected.
ERROR	7	39-24	Error register associated with the channel.

FIELD	WORD	LOCATION	DESCRIPTION
OPER	7	15-0	Operational status register associated with the channel.
F	10	55-52	Channel flags associated with the channel.
		(55) (54) (53) (52)	Active flag Full flag Error flag Channel flag
CONTROL.	10	51-36	Control register associated with the channel.
TREG	11	48-0	T-register associated with the channel. This field contains valid data only if the T-REG FAULT field is zero.
DS0	12	59–44	First word of disk status (function word 80).
DS1	12	43-28	Second word of disk status (function word 81).
DS2	12	27-12	Third word of disk status (function word 82).
DS3	12	11-0	Fourth word of disk status (function word 83).
DS3	13	59-56	Fourth word of disk status (function word 83).
DS4	13	55-40	Fifth word of disk status (function word 84).
DS5	13	39-24	Sixth word of disk status (function word 85).
DS6	13	23-8	Seventh word of disk status (function word 86).
SS0	13	7-0	First word of drive status (function word 90).
SS0	14	59-52	First word of drive status (function word 90).
SS1	14	51 - 36	Second word of drive status (function word 91).
SS2	14	35-20	Third word of drive status (function word 92).

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<u>Field</u>	Word	Location	Description
SS3	14	19-4	Fourth word of drive status (function word 93).
SS4	14	3-0	Fifth word of drive status (function word 94).
SS4	15	59-48	Fifth word of drive status (function word 94).
SS5	15	47-32	Sixth word of drive status (function word 95).
SS6	15	31-16	Seventh word of drive status (function word 96).
SS7	15	15-0	Eighth word of drive status (function word 97).

Refer to the CDC Intelligent Hydra Drive Hardware Maintenance manual, Volume 2, for the format of the BSR, IDLE, and LSC fields. Refer to the CYBER 840A, 850A and 860A Computer Systems Hardware Reference manual, Volume 2, for the format of the LCF field.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ROTATING MASS STORAGE	! ! !! !! !! !! !! !! !! !! !! !!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	887	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

The following BML message is issued by the 887 driver, lHY, whenever an error is reported by the disk and the error register image is changed since the last time it was logged. The driver assumes the disk is reporting an error when Check End is set and System Intervention Status or Manual Intervention Status is present.

	59	47	41	35	29	23	17	11	5	0
Word 2	! ! MSGID !		MPTOM	! CPP	! CCH	! EC	! ? ! UN !	! PT	! 0	
Word 3	! ! EST !		! Y! FLG !		0	!!!	MID	1	0	! !
Word 4	! ! !		ERROR	REGIS	rer ima	AGE				! ! !
Word 5	: ! ! !		ERROR	REGIST	TER IMA	AGE				! ! !
Word 6	! ! !		ERROR	REGIS:	ΓER IM	AGE				: ! ! !
Word 7	! ! !		ERROR	REGIS:	TER IMA	AGE				: ! ! !
Word 8	! ! !		ERROR	REGIS:	ΓER IMA	AGE				! ! !
Word 9	! ! !		ERROR	REGIS:	TER IMA	AGE				! ! !
Word 10	! ! ! !		ERROR	REGIS:	TER IMA	AGE				: ! ! !
Word 11	! ! 		ERROR	REGIS:	TER IMA	AGE			، ذب شد نید ۲۰۰۰ ۲۰۰۰	! ! !

	59	11	0
Word 12	ERROR REGISTER IMAGE		! !
Word 13	ERROR REGISTER IMAGE		! ! !
Word 14	ERROR REGISTER IMAGE		!
Word 15	ERROR REGISTER IMAGE		! ! !
Word 17	ERROR REGISTER IMAGE		! ! 0 !

<u>Field</u>	Word	Location	Description
MSGID	2	59–48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0103B Disk error.
CPP	2	35-30	Concurrent PP that reported the error.
ССН	2	29 – 24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A l Port B
EST	3	59 – 48	EST ordinal of failing device.
RTRY	3	47-42	Number of retries already performed by the 887 driver. Each unsuccessful retry results in a BML message.

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Field	Word	Location	Description
FLG	3	41 - 36 (39)	Flag field. Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
MID	3	23-12	Machine ID.

Refer to the CDC Intelligent Hydra Drive Hardware Reference Manual for the format of the Error Register Image.

The Error Register may not be valid or be associated with the error reported in the disk Status Block.

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ROTATING MASS STORAGE	! ! !	MSGID: 0120B, 0121B !
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	887	! ! !	! SYMPTOM: 0104B !

The following message is issued to the BML by 1HY whenever an unexpected status is returned to 1HY from the disk. The disk error log is not cleared after this message is issued.

The length of this message is dependent on how many error log entries were generated by the disk since the last time this message was issued for the device. Only new entries are logged by lHY. The most recent disk error log entry is error entry 0.

Word	2 !	MSGID	! ! S	 YMP'		! CPP			! EQ ! !					0
Word	3 !	EST			FLG		0	! ! !	MID		! ! !		0	
Word	! 4 ! !					ERROR	ENTR	Y C)		. —			
Word	5 ! !	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!				ERROR	ENTR	Y 1						
Word		ERROR ! ENTRY ! 1 !				ERROR	ENTR	Y 2	! 			··		
Word	7 !	ERROR ENTRY 2	!		ERRO	R ENTR	Y 3							. !
Word	8 !	ERROR ENTRY 3	!			ERRO	R ENI	RY	4					
Word	9 !	ERROR	ENTRY	4	! !		ERRO	R E	NTRY 5					
Word	10 !	ERROR	ENTR	Y 5		! ! !	ER	ROR	ENTRY	6	_ -			

	59		30			0
Word 11	! ERR	OR ENTRY 6	! ! !		ERROR ENTRY 7	!
Word 12	! ! !	ERROR ENTRY	7	! ! !	ERROR ENTRY 8	! ! !
Word 13	! ERRO	OR ENTRY 8		!	ERROR ENTRY 9	! ! !
Word 14	! ERRO	R ENTRY 9			! ! ERROR ENTRY 10 !	! ! !
Word 15	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ERROR ENTE			! ! ERROR ENTRY !	11!
Word 16	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ERROR ENTE			! ! 0 !	!

Field	Word	Location	Description
MSGID	2	59–48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47–36	Symptom Code. 0104B Disk error log.
CPP	2	35–30	Concurrent PP that reported the error.
ССН	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A l Port B
EST	3	59-48	EST ordinal of failing device.
FLG	3	41 - 36 (39)	Flag field. Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
MID	3	23-12	Machine ID.

Refer to the CDC Intelligent Hydra Drive Hardware Maintenance Manual, Volume 2, for the format of the error log entries.

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ROTATING MASS STORAGE	! ! !	MSGID: 0120B, 0121B !
! ! !	887	!!!	SYMPTOM: 0105B !

The following BML message is issued by the $887\,$ driver, 1HY, whenever the error recovery process completes processing an error. This message indicates an error is recovered.

	59	47	35	29	23	17	11	5	0
Word 2	! ! MSGID !	! ! SYMPTOM !	-	=	! ! EQ !		-	! ! 0 !	! ! !
Word 3	! ! ! EST !	! ! ! RTRY! FLG ! !	! ! !	0	! ! Mi	LD	! !	0	! ! !

Field	Word	Locatio	n <u>Description</u>
MSGID	2	59 – 48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47 - 36	Symptom Code. 0105B Error processing summary
CPP	2	35-30	Concurrent PP that processed the error last.
ССН	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A 1 Port B

Field	Word	Location	Description
EST	3	59-48	EST ordinal of failing disk.
RTRY	3	47-42	Number of retries already performed by the 887 driver.
FLG	3	41 - 36 (39)	Flag field. Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
		(36)	Clear if recovered error. Set if unrecovered error.
MID	3	23-12	Machine ID.

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!	ROTATING MASS STORAGE	! ! MSGID: 0120B, 0121B ! !
! ! !	887	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

The following message is issued by lHY whenever it completes processing a level I or a level II diagnostic. The results of the diagnostics are found in the disk status logged as part of this message.

	59	46	34	22 .	10	0
Word 2	! ! MSGID !	! ! SYMPTOM ! ! !	PP ! CCH	! ! ! EQ ! UN ! !	! !! !! PT!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	0 ! !
Word 3	! ! EST !	! ! ! ! RTRY! FLG ! ! ! !	0	! ! MID !	! ! 0 !	! ! !
Word 4	!		STATUS			! !
Word 5			STATUS		! ! 0 !	! !

Field	Word	Location	Description
MSGID	2	59–48	Message ID. 0120B = 887 (4K format) 0121B = 887 (16K format)
SYMPTOM	2	47 – 36	Symptom code. 0106B Read diagnostic results. 0107B Write diagnostic results. 0110B Level I diagnostic results. 0111B Level II diagnostic results.
CPP	2	35-30	Concurrent PP that processed the error last.
ССН	2	29-24	Concurrent channel used to obtain status. (Channel number is biased by 40B.)
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. O Port A l Port B
EST	3	59-48	EST ordinal of failing disk.

<u>Field</u>	Word	Location	Description
RTRY	3	47-42	Number of retries already performed by the 887 driver.
FLG	3	41 - 36 (39)	Flag field. Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
		(36)	Clear if recovered error. Set if unrecovered error.
MID	3	23-12 ·	Machine ID.
STATUS	4	59-0	Disk status block.
STATUS	5	59-12	Disk status block.

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (170 MODELS)	!!!	MSGID	0200В
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	SECDED SINGLE BIT CORRECTED ERROR	!!!	SYMPTOM	0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59	47 41	35	29	23		0
Word 2	! ! 0200B !	! ! 0100B !	! ! PP !	! ! 16B !	! ! !		0
Word 3	! ! 0 !	! ! 0	! 4 ! !			0	
Word 4	! ! SCI !	R, CHANNEL	16 (Bits	203-144)		
Word 5	! ! SCI !	R, CHANNEL	16 (Bits	143-84)		•	
Word 6	! ! SCI	R, CHANNEL	16 (Bits	83-24)			
Word 7	SCR (Bits	s 23 - 0)	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	OP	!!!	0	

The continuation message has the following form.

	59	47 41	35	29	23		- 0
Word 2	! 0200B !	0100в	! ! PP !	! ! 36B !	! !	0	! ! !
Word 3		! ! 10 !	! ! !		0		! ! !
Word 4 !	! SCR, !	CHANNEL 3	36 (Bits	203-144)			
Word 5 ! !	SCR,	CHANNEL 3	6 (Bits	143-84)			! ! !
Word 6 !	SCR,	CHANNEL 3	36 (Bits	83-24)			! ! !
Word 7 !	SCR (Bits	23-0)	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	OP	! ! !	0	! ! !

<u>Field</u>	Word	Location	Description
PP	2	35-30	PP that detected the error.
OP	7	35-24	Options installed. This field contains byte one of CMR word MABL.

!	MAINFRAME (170 MODELS)	!!!	MSGID	0200B	
!!!	SECDED SINGLE BIT SUMMARY TABLE	!!!	SYMPTOM	0101B	

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59 47	41 3	35 2	29 2	.3		5 0
Word 2	0200B ! !	0101B ! !	PP ! !	! 16B ! !		0	! ! !
Word 3 !	0	! ! ! FLG ! ! !			0		! ! !
Word 4 ! !	S	ID		! ! !	0	! ! !	CT ! !
Word 5 !	S	ID		! ! !	0	! ! !	CT !
Word 6 !	S	ID		! ! !	0	! ! !	CT !
Word 7 !	S	ID		! ! !	0	! ! !	CT !

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag Field. Not first block flag. O BML message is the first block of a message. I BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. 1 Another message will follow.
SID	59-24 (59-58) (57-44) (43-24)	SECDED identifier. SCR bits 191-190. SCR bits 53-40. Zero (unused).
CT	5-0	Error counter.

! MAINFRAME (MODELS 720, 730, ! 740, 750, AND 760	! ! MSGID 0201B ! !	! ! ! !
! ! SECDED SINGLE BIT CORRECTED ERROR !	! ! SYMPTOM 0100B !	! ! !

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59 [.]	47 41	35	29	23			0
Word 2	0201B	! ! 0100B !	! ! PP !	! ! 16B !	! ! !		0	! ! !
Word 3 !	0	! ! 0 !	! 4 ! !			0		! ! !
Word 4 !	SC	CR, CHANNE	L 16 (Bi	ts 203 - 14	44)			! ! !
Word 5 !	SC	CR, CHANNE	L 16 (Bi	ts 143 - 84	4)			! ! !
Word 6 !	SC	CR, CHANNE	L 16 (Bi	s 83 - 24))		,	
Word 7 !	SCR (Bit	ts 23-0)	! ! !	OP	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		0	! ! !

The continuation message has the following form.

	59	47 41	35	29	23		0
Word 2	! ! 0201B !	! ! 0100B !	! ! PP !	! ! 36B !	! ! !	0	!
Word 3	! !	! ! 10 !	!		0		! ! !
Word 4	! ! SC !	R, CHANNEL	36 (Bits	s 203 – 14	4)		! !
Word 5	! ! SC	R, CHANNEL	36 (Bits	s 143 – 84))		
Word 6	! ! SC	R, CHANNEL	36 (Bits	s 83 – 24)			! ! !
Word 7 !	SCR (Bit	s 23-0)	! ! !	OP .	! ! !	0	! ! !

<u>Field</u>	Location
PP	35-30
OP	35-24

PP that detected the error.

Description

Options installed. This field contains byte one of CMR word MABL.

	MAINFRAME (MODELS 720, 730, 740, 750, AND 760)	!!!	MSGID	0201B	!!!!!
!!!	SECDED SINGLE BIT SUMMARY TABLE	!!!	SYMPTOM	0101B	!

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47	41 3	35	29	23			5	0
Word 2	! ! 0201B !	! ! 010 !	! 1B ! !	PP	! ! 16B !	! ! !		0		! ! !
Word 3	! ! 0		! !! ! FLG !!!		· ·		0			! ! !
Word 4		SI	D.			! ! !	0		! ! C	! ! T: !!
Word 5	!	SI	D			! ! !	0		! ! C	! !T ! !
Word 6 !	!	SI	D			! ! !	0		! ! C	! ! T: !
Word 7		SI	D			! ! !	0		! ! C	T ! !

<u>Field</u>	Location	<u>Description</u>
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. 1 Another message will follow.
SID	59-24 (59-58) (57-44) (43-24)	SECDED identifier. SCR bits 191-190. SCR bits 53-40. Zero (unused).
CT	5-0	Error counter.

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!!!!!!!	MAINFRAME (MODEL 176A)	!!!	MSGID	0202B	
!	SECDED SINGLE BIT CORRECTED ERROR	!!!	SYMPTOM	0100B !	

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59	47 41	l	35	29	23		(
Word 2	! ! 0202B	! ! 01001 !	В	! ! PI !	! ? ! 16B !	! ! !		0
Word 3	. 0 !0	! ! !	04	! ! !			0	
Word 4	SCR,	CHANNEL	16	(Bits	203-144)			
Word 5	SCR,	CHANNEL	16	(Bits	143-84)			
Word 6 !	SCR,	CHANNEL	16	(Bits	83-24)			
Word 7 !	SCR (Bits	23-0)		! ! !	OP	!!!!!		0

The continuation message has the following form. .

	59	47 41	35	29	23			0
Word 2 !	0202в !	! 0100B	! ! PP !	! ! 36B !	! ! !		0	! ! !
Word 3 !		! ! 10 !	! ! !			0		! ! !
Word 4 !	SCR,	CHANNEL 36	(Bits	203-184)			! !
Word 5 !	SCR,	CHANNEL 36	(Bits	183-84)				! ! !
Word 6 !	SCR,	CHANNEL 36	(Bits	83-24)				! ! !
Word 7 !	SCR (Bits	23-0)	! ! !	OP	! ! !		0	! ! !

<u>Field</u>	Location
PP	35-30
OP	35 - 24

	Desci	ciption		
PP	that	detected	the	error.

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Options installed. This field contains byte one of CMR word MABL.

!	MAINFRAME (MODEL 176A)	!!!	MSGID	0202B	!
!	SECDED SINGLE BIT SUMMARY TABLE	!!!	SYMPTOM	0101B	!

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47	41	35	29	23			5	0
Word 2 !	! ! 0202B !	! ! 01 !	.01B	! ! PP !	! ! 16B. !	! ! !		0		! ! !
Word 3 ! !	0		! ! FLG !	! ! !			0			! ! !
Word 4		SII)			! ! !	0		! ! !	! CT ! !
Word 5 ! !		SII)			! ! !	0		! ! !	CT !
! Word 6 ! !	!	SII)			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	0		! ! !	CT !
Word 7 !		SII)			! ! !	0		! ! !	CT !

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. I BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. l Another message will follow.
SID	59-24 (59-48) (47-34) (33-24)	SECDED identifier. SCR bits 167-156. SCR bits 53-40. Zeros (unused).
CT	5-0	Error counter.

!	MAINFRAME (MODEL 176A)	! ! !	MSGID	0202B	!
!	LCME SINGLE BIT SUMMARY TABLE	! ! !	SYMPTOM	0104B	!

The following message is repeated until all LCME errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47	41	35	29	23	·-·		5	0
Word 2	! 0202B	! ! 01 !	.04B	! ! PP !	! ! 16B !	! ! !		0		!
Word 3 !	0		! ! FLG !	! ! !			0			! ! !
Word 4 !		SII)			!!!	0		! ! C' !	! T !
Word 5 !	 	SII)			! ! !	0		! ! C	T !
Word 6 !		SII)			! ! !	0		! ! C !	! T !
Word 7		SII)			! ! !	0		! ! C !	T!

<u>Field</u>	Location	Description
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. I Another message will follow.

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<u>Field</u>	Location	Description
SID	59-23 (59-52) (51-50) (49-44) (43-24)	LCME ID. SCR bits 151-144. SCR bits 117-116. SCR bits 101-96. Zero (unused).
CT	5-0	Error counter.

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!	MAINFRAME (MODEL 176B)	!!!	MSGID	0203В	!!!!
!!!	LCME SINGLE BIT CORRECTED ERROR	!!!	SYMPTOM	0100B	!!!!

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59	47 41	² 35	29	23_		0
Word 2 !	! ! 0203B	! ! 0100B !	! ! Pi !	! P ! 16B !	! ! !	0	!) ! !
Word 3 !	0	! ! 04 !	!			0	! ! !
Word 4 !	SCR,	CHANNEL 16	(Bits	203-144)			! !
Word 5 !	SCR,	CHANNEL 16	(Bits	143-84)			! ! !
Word 6 !	SCR,	CHANNEL 16	(Bits	83-24)			! ! !
Word 7 !	SCR (Bits	23-0)	! ! !	OP	! ! !	0	!) !

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The continuation message has the following form.

	59	47 41	<u> </u>	35	29	23			0
Word 2	! ! 0203B !	! ! 0100E !	3	! ! P! !	! P ! 36B !	! ! !		0	! !
Word 3		!	10	!			0		! !
Word 4	! ! SCR, !	CHANNEL	36	(Bits	203-144)			! !
Word 5 !	SCR,	CHANNEL	36	(Bits	143-84)				! ! !
Word 6	SCR,	CHANNEL	36	(Bits	83-24)				· ! !
Word 7 !	SCR (Bits	23-0)		!!!!	OP	! ! !		0	! !

<u>Field</u>	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

!	MAINFRAME (MODEL 176B)	!!!	MSGID	0203B	!
!	SECDED SINGLE BIT SUMMARY TABLE	!!!	SYMPTOM	0101B	!

The following message is repeated until all SECDED single bit errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47 41	35	29	23			.5	0
Word 2	! 0203B ! ! 0203B !	0101B	! ! PP !	! ! 16B !	! ! !		0		! ! !
Word 3	0	! ! FLG !	! ! !			0			! !
Word 4	! !	SID			! ! !	0		! ! C !	! :T ! !
Word 5	SID				! ! !	0		! ! C	! :T ! !
Word 6	! ! !	SID			! ! !	0		! ! C !	! T !
Word 7 !		SID			! ! !	0		! ! C	T !

<u>Field</u>	Location	<u>Description</u>
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. I BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. 1 Another message will follow.
SID	59-24 (59-48) (47-34) (33-24)	SECDED identifier. SCR bits 167-156. SCR bits 53-40. Zeros (unused).
CT	5-0	Error counter.

!	MAINFRAME (MODEL 176B)	! ! !	MSGID	02 03 B
!	LCME SINGLE BIT SUMMARY TABLE	!!!	SYMPTOM	0104B !

The following message is repeated until all LCME errors that were logged are reported to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

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	59	47	41	35	29	23				5	0
Word 2	! ! 0203B !	! ! 010 !)4B	! ! PP !	! ! 16B !	! ! !			0		! ! !
Word 3	0		! ! FLG !	! ! !			0				! ! !
Word 4	! !	SI				! ! !		0		! ! C'! !	! Γ ! !
Word 5 !	SID					! ! !		0		! ! C'! !	! r !
Word 6 !	!	SI	.D			! ! !		0		! ! C'	I !
Word 7 !		SI	D			! ! !		0		! ! C'! !	! [!

PP 35-30 PP that detected the error. FLG 41-36 Flag field. (39) Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message. (38) Continuation block flag. 0 Final or only message. 1 Another message will foll. SID 59-24 LCME identifier. (59-48) SCR bits 151-144. (47-34) SCR bits 151-144. (47-34) SCR bits 101-96. (33-24) Zeros (unused). CT 5-0 Error counter.	<u>Field</u>	Location	Description
Not first block flag. O BML message is the first block of a message. 1 BML message is not the first block of a message. Continuation block flag. O Final or only message. 1 Another message will foll. SID 59-24 (59-48) (59-48) SCR bits 151-144. (47-34) SCR bits 117-116. (49-44) SCR bits 101-96. (33-24) Zeros (unused).	PP	35-30	PP that detected the error.
0 Final or only message. 1 Another message will foll SID 59-24 LCME identifier. (59-48) SCR bits 151-144. (47-34) SCR bits 117-116. (49-44) SCR bits 101-96. (33-24) Zeros (unused).	FLG	· 	Not first block flag. O BML message is the first block of a message. 1 BML message is not the
(59-48) SCR bits 151-144. (47-34) SCR bits 117-116. (49-44) SCR bits 101-96. (33-24) Zeros (unused).		(38)	O Final or only message.
CT 5-0 Error counter.	SID	(59-48) (47-34) (49-44)	SCR bits 151-144. SCR bits 117-116. SCR bits 101-96.
	CT	5-0	Error counter.

!!!	MAINFRAME (MODEL 865)	! ! !	MSGID	0204B !
!	SECDED SINGLE BIT CORRECTED ERROR	!!!	SYMPTOM	0100B !

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form. .

	59	47 41	35	29	23		0
Word 2	! 0204B ! ! 0204B !	0100B	! ! PP !	! ! 16B !	! ! !		0 !
Word 3	! ! 0 !	! ! 04 !	!			0	!
Word 4	SCF	CHANNEL	16 (Bits	203-14	44)		! ! !
Word 5	! ! SCF	R, CHANNEL	16 (Bits	: 143–84	4)		! !
Word 6	SCF	R, CHANNEL	16 (Bits	83-24)		! ! !
Word 7	SCR (Bits	3 23-0)	! ! !	ОР	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	0	! !

The continuation message has the following form.

	59	47	41 35	29	23			0
Word 2 !	! ! 0204B	! ! 010 !	! OB ! PI !	! ? ! 36B !	! ! !	•	0	! ! !
Word 3 !		! ! !	! 10 ! !			0		! ! !
Word 4 !	! !	SCR, CHAN	NEL 36 (Bit	s 203-1	44)			! ! !
Word 5 ! !	5	SCR, CHAN	NEL 36 (Bit	:s 143-8	4)			! !
Word 6 !		SCR, CHAN	NEL 36 (Bit	s 83 - 24)			! ! !
Word 7 !	SCR (Bi	its 23-0)	! ! !	OP	! ! !	0		!

Field	Location
PP	35-30
OP	35-24

Description

PP that detected the error.

Options installed. This field contains byte one of CMR word MABL.

!!!	MAINFRAME (MODEL 865)	! ! !	MSGID	0204B	!
!	SECDED SINGLE BIT SUMMARY STATUS	!!!	SYMPTOM	0101B	!

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47	41	35	29	23			5	0
Word 2	! ! 0204B !	! ! 01 !	01B	! ! PP !	! ! 16B !	! ! !		0		! ! !
Word 3	0		! ! FLG !	! ! !			0			! ! ! !
Word 4	!	S	SID			! ! !	0		! ! C] !	! ! 1 !
Word 5 !		S	SID			! ! !	0		! ! C]	! ! ! !
Word 6	!	S	SID			!	0		! ! C]	! !
Word 7 !		S	ID			! ! !	0		! ! C]	. ! . ! !

<u>Field</u>	Location	<u>Description</u>
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. l Another message will follow.
SID	59-24 (59-58) (57-44) (43-24)	SECDED identifier. SCR bits 191-190. SCR bits 53-40. Zero (unused).
CT	5-0	Error counter.

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!	MAINFRAME (MODEL 875)	!!	MSGID	0205B	-! !
!!!	SECDED SINGLE BIT CORRECTED ERROR	!!!	SYMPTOM	0100В	_ ! !

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59 4	7 41	35 29	23	0
Word 2 !	! 0205B !	0100B ! !	! PP ! 16B !	! ! !	0 !
Word 3 !	0	! ! ! 04 ! ! !		0	
Word 4 !	SCR,	CHANNEL 16	(Bits 203-1	44)	
Word 5 !	SCR,	CHANNEL 16	(Bits 143-8	4)	
! Word 6 ! .!	SCR,	CHANNEL 16	(Bits 83-24))	! !
Word 7 !	SCR (Bits	23 - 0) !	OP	! ! 0 !	!

The continuation message has the following form.

	59 4	7 41	35 29	23	0
Word 2	! !! ! 0205B !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! 0100в ! !	! PP ! 36B !	! ! !	0
Word 3		! ! ! 10 ! ! !		0	
Word 4	! ! SCR, !	CHANNEL 36	(Bits 203-1	44)	
Word 5	! ! SCR, !	CHANNEL 36	(Bits 143-84	4)	
Word 6	! ! SCR,	CHANNEL 36	(Bits 83-24))	
Word 7	! ! SCR (Bits !	23-0) ! !	OP	! ! !	0

<u>Field</u>	Location	Description
PP	35–30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

!	MAINFRAME (MODEL 875)	! ! MSGID !	0205B	
!	SECDED SINGLE BIT SUMMARY STATUS	! ! SYMPTOM !	0101B	

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59	47 41	35	29	23		5	0
Word 2	! ! 0205B !	! ! 0101B !	! ! PP !	! ! 16B !	1 / ₂ 1	0		! !
Word 3	! ! 0 !	! ! FL(!	! G ! !		. 0			! ! !
Word 4	! !	SID			! ! !	0	!!!	CT ! !
Word 5		SID			! ! !	0	!!!!	! CŢ ! !
Word 6	!	SID			! ! !	0	!!!!	! CT !
Word 7		SID			! ! !	0	1 1	CT !

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41 - 36 (39)	Flag field. Not first block flag. O BML message is the first block of a message. I BML message is not the first block of a message.
	(38)	Continuation block flag. O Final or only message. l Another message will follow.
SID	59-24 (59-58) (57-44) (43-24)	SECDED identifier. SCR bits 191-190. SCR bits 53-40. Zero (unused).
CT	5-0	Error counter.

! ! CHANNEL !	STATUS		!!!	MSGID	0206B		! ! !
UP/DOWN STATUS		! ! !	SYMPTOM	0014B,	0015B, 0016B,	0017B!	
	59	47	35	29	23	11	0
Word 2	! 0206B	! SYMPTOM	! P	P ! CH	: !	0	!

	59	47	35	29	23	11	. 0
Word 2 !	0206В	! ! SYMPTOM !	! !! ! PP !!	СН	! ! !	0	! ! !
Word 3 !		0	14		! ! MID !	! !	0 !

Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0014B Channel downed by operator. 0015B Channel downed by system. 0016B Channel upped by operator. 0017B Channel upped by system.
PP	2	35-30	PP that detected the error.
СН	2	29-24	Channel upped or downed.
MID	3	23-12	Machine identifier.

! EXTENDED MEMORY !	! ! MSGID !	0211B, 0173B	!!!!
! SECDED !	! ! SYMPTOM !	0100В	!!!!

The first message is as follows.

	59	47 41	35 29	23	11 0
Word 2	! ! MSGID !	! ! 0100B !	! ! ! PP ! CH ! ! !	! ! !)) !
Word 3	! ! EST !	! ! ! 0 ! 04 ! !	! !	0	!
Word 4	! ! !	Al		! ! A2 !	! ! A3 ! !
Word 5	! ! A4 !	! ! A5 !	! ! A6 !	! ! A7 !	! ! A8 !
Word 6	! ! A9 !	! . ! A10 !	! ! All !	! ! A12 !	! !! ! A13 !!
Word 7	! ! A13 !	! ! A15 !	! ! A16 !	! ! A17 !	! A18 !

The continuation message is as follows.

	59	47 41	35 29	23	11 0
Word 2 !	MSGID	! ! 0100B ! !	! ! ! PP ! CH ! ! !	! ! 0 !	!
Word 3 !	EST	! ! ! 0 ! 14 ! ! !	! !	0	
Word 4 ! !	B1	! ! В2 !	! ! B3 !	! ! B4 !	! ! B5 ! !
Word 5 ! !	В6	В7	! ! В8 !	! ! B9 !	! ! B10 !
Word 6 !	B11	B12	! ! B13 !	! ! B14 !	! ! B15 ! !
Word 7 !	B16	B17	B18	! ! B19 !	! ! B20 ! !

The continuation message is as follows.

	59	47 41	35 29	23	11 0
Word 2 !	MSGID	! ! 0100B !	! ! ! PP ! CH ! !	<u> </u>	0 !
Word 3 !	! ! EST !	! ! ! 0 ! 14 ! ! !	! ! !	0	!
Word 4 !	C1	. C2	! ! C3	! ! C4 !	! C5 !
Word 5 ! !	C6	! ! C7 !	! ! C8 !	! ! C9 !	! C10 ! ! :
Word 6 ! !	C11	! ! C12	! ! C13	! ! C14 !	! C15 !
Word 7 !	C16	! ! C17 !	! ! C18 !	! ! C19 !	! C20 ! ! C20 !

The continuation message is as follows.

	59	47 41	35 29	23	11 0
Word 2 ! !	MSGID	! ! 0100B !	! ! ! ! ! PP ! CH !	! ! !	0 ! !
Word 3	EST	!!! ! 0 ! 14 !!!	· !	0	! ! !
Word 4	D1	! ! D2 !	! ! D3 !	! ! D4 !	! ! D5 ! ! !
Word 5	D6	! ! D7 !	! ! D8 !	! ! D9 !	! !! !! ! D10 !!
Word 6 !	D11	! ! D12 !	! ! D13 !	! ! D14 !	! . D15 ! ! . D15 !
Word 7 !	D16	! ! D17 !	! D18	! ! D14 !	! ! D20 ! !

The continuation message is as follows.

	59	47 41	35 29 23	11 0
Word 2	! ! MSGID !	! ! 0100B !	! !!! ! PP ! CH ! !!!!	0 !
Word 3	EST	! ! ! 0 ! 10 ! !	!	0 !
Word 4	! ! E1	! ! E2 !	! ! ! E3 ! ! !	0 ! !

Field	Location	Description
MSGID	59-48	Message ID.
•		0173B=STORNET.
	50.40	0211B=ESM.
EST	59-48	EST ordinal of device being logged.
A1	59-24	Programmable single bit error counter.
A2	23-12	Double bit error l (valid bit, address bits 23-13).
A3	11-0	Double bit error 1 (address bits $12-4$, $2-0$).
A4	59 – 48	Double bit error 2 (valid bit, address bits 23-13).
A5	47-36	Double bit error 2 (address bits 12-4, 2-0).
	• .	
	•	
	•	
A18	11-0	Double bit error 9 (valid bit, address bits 23-13).
B1	59-48	Double bit error 9 (address bits 12-4, 2-0).
В2	47 – 36	Double bit error 10 (valid bit, address bits 23-13).
в3 _.	35-24	Double bit error 10 (address bits 12-4, 2-0).
	•	
	•	
	•	
B14	23-12	Double bit error 16 (valid bit, address bits 23-13).
B15	11-0	Double bit error 16 (address bits 12-4, 2-0).
B16	59 – 48	Single bit error 1 (syndrome bits, address bit 23).
B17	4 7- 36	Single bit error 1 (address bits 22-17, 2-0).
	•	
	•	
	•	

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<u>Field</u>	Location	<u>Description</u> (Continued)
В20	11-0	Single bit error 3 (syndrome bits, address bit 23).
Cl	59-48	Single bit error 3 (address bits 22-17, 2-0).
	•	•
C20	11-0	Single bit error 13 (syndrome bits, address bit 23).
D1	59 – 48	Single bit error 13 (address bits 22-17, 2-0).
	•	
D7	47-36	Single bit error 16 (address bits 22-17, 2-0).
D8	35-24	Single bit error 1 (counter bits).
	•	
D20	11-0	Single bit error 13 (counter bits).
E1	59-48	Single bit error 14 (counter bits).
E2	47-36	Single bit error 15 (counter bits).
E3	35-24	Single bit error 16 (counter bits).

! ! EX !	TENDED MEMORY	! . ! MSGID !	0173B, 0211B
	INTENANCE PORT ATUS	! ! SYMPTOM !	0101B

	59	47	41	35	29	23		11	<u> </u>	0
Word 2	! ! MSGID !	! ! 010 !	1B	! ! PP ! !	! ! CH !	! ! !		0		! ! !
Word 3	! ! EST !	! ! 0 !	! ! 00 !	! ! !		(0			-! ! !-
Word 4	! ! !	DATA B	YTES				! ! !		0	_! ! _!

Field	Location	Description
MSGID	59-48	Message ID. 0173B=STORNET. 0211B=ESM.
PP	35-30	PP that detected the error.
СН	29-24	Maintenance Port channel.
EST	59-48	EST ordinal of device being logged.
DATA BYTES	59-12	Error status of device.

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! DUAL STATE !	! ! MSGID !	0240в	
! CM ASSIGNED, CM RETURNED!	! ! SYMPTOM !	0110B, 0111B	

This message is issued wherever central memory (CM) is assigned to NOS/VE or returned to NOS.

	59	47	35	23	0
Word 2	! ! 0240B !	! ! SYMPTOM !	! ! !	0	! ! !
Word 3	! ! !		Ó		! ! !
Word 4	! ! 0 !	! ! FWA/1	000в	! ! (LWA-1)1000B !	! ! !

<u>Field</u>	Word	Location	<u>Description</u>
SYMPTOM	2	47-36	Symptom code. 0110B CM assigned to NOS/VE. 0111B CM returned to NOS.
FWA	4	47-24	First word address of NOS/VE. CM after operation is complete.
LWA	4	23-0	Last word address of NOS/VE. CM after operation is complete.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	DUAL STATE	! ! MSGID !	0240B	!!!
! ! !	CONCURRENT PP STATUS	! ! SYMPTOM !	0114B, 0115B, 0122B	!!!!

These messages are issued whenever a concurrent PP (CPP) is assigned to ${\tt NOS/VE}$ or returned to ${\tt NOS}$.

	59	47	35	23	11	0
WORD 2	! ! 0240B !	! ! SYMPTOM !	! ! !		0	! ! !
WORD 3	! ! !			0		!
WORD 4	! !		0		! ! !	! CPP !

FIELD	WORD	LOCATION	DESCRIPTION
SYMPTOM		47-36	Symptom code. 0114B CPP assigned to NOS/VE. 0115B CPP returned to NOS. 0122B Idle CPP error. This BML message can be issued when a NOS CPP is being idled. It is not issued when a NOS/VE CPP is idled since that is done by NOS/VE.
CPP	4	11-0	Logical CPP number to which message applies (0-11B).

! DUAL STATE	MSGID	0240в				!!!
PP STATUS	SYMPTOM	0112В,	0113B,	0120В,	0121B	!!!

These messages are issued whenever a PP is assigned to NOS/VE or returned to NOS.

	59	47	35		11	0
Word 2	! ! 0240B !	! ! SYMPTOM !	! ! !	0		! ! !
Word 3	!		0			!
Word 4	! ! !	C)		! ! !	PP !

Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0112B PP assigned to NOS/VE. 0113B PP returned to NOS. 0120B Deadstart PP error. 0121B Idle PP error.
PP	4	11-0	Logical PP number to which the message applies.

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! ! MAINFRAME ! (180 CLASS MODELS)	! ! !	MSGID	0250в	!
! ! IOU ERRORS !	! ! !	SYMPTOM	0001B,0002B	! !

59	47	41	35	29	23	11		0		
					•	0		!		
! 0	•	! 04B	!	_	! MID	!	0	!		
!	EID - Element Identifier (bits 0 - 59)									
!	ss – s	tatus S	ummary	(bits 0	- 59)			!		
!	OI - Options Installed (bits 0 - 59)									
!	DEC - Dependent Environment Control (bits 0 - 59)									
	! 0250B ! 0	! 0250B ! SYM ! 0 ! EID - ! SS - S	! 0250B ! SYMPTOM ! 0 ! 04B ! EID - Element ! SS - Status S ! OI - Options	! 0250B ! SYMPTOM ! PP ! 0 ! 04B ! ! EID - Element Identi ! SS - Status Summary ! OI - Options Install	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 04B ! 0 ! EID - Element Identifier (b ! SS - Status Summary (bits 0 ! OI - Options Installed (bit	! 0250B ! SYMPTOM ! PP ! 17B ! ! 0 ! 04B ! 0 ! MID ! EID - Element Identifier (bits 0 - 59) ! SS - Status Summary (bits 0 - 59) ! OI - Options Installed (bits 0 - 59)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! 04B ! 0 ! MID ! ! EID - Element Identifier (bits 0 - 59) ! SS - Status Summary (bits 0 - 59) ! OI - Options Installed (bits 0 - 59)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! 04B ! 0 ! MID ! 0 ! EID - Element Identifier (bits 0 - 59) ! SS - Status Summary (bits 0 - 59) ! OI - Options Installed (bits 0 - 59)		

Continuation message 1.

	59		47	41	35	29	23		11	0
Word 2			SYMPTOM!		 ! PP		! 0		t	!
Word 3	!	0		! 14B	! ()	! MII	-	! 0	!
Word 4	! Ç1	•	C2	•	! C3	•	! C4 !			!
Word 5	!		SR - S1	tatus R	egister	(bits	– 59)			!
Word 6	!	I	rs1 - 1	Fault S	tatus Re	egister	l (bits	s 0 – 5	9)	!
Word 7	!	I	SS2 - 1	Fault S	tatus Re	egister	2 (bits	0 - 5	9)	!

	59		41					11	0
Word 2	! 0250B	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 0		! 14B	!	0	! M	ID	! 0	!
Word 4	!	TM - T	est Mod	e (bits	s 0 - 5	59)			!
Word 5	! C5 ! 100B ! ! (40)	! C6	! 200B ! (80)	! C7	! 201B ! (81)	! C8	! 240B ! (A0)	! 0	!
Word 6	•	•	Fault S	•	•	•	•	7	!
Word 7	!	OSB -	OS Bound	ds (bit	s 0 - 5	9)			+ ! +

Continuation message 3. This is the last message if the CIO subsystem is not installed.

	59	47	35	29	23	11	0
Word 2	! 0250в	! SYMPTOM		! 17B	!	0	!
Word 3	! 0	! 10B	!)	! MID	!	0 !
Word 4	!	0	7		,		!
Word 5	!	. 0					!
Word 6	! C9 ! 30B ! ! (18)	•	!		0		!
Word 7	!	0				: سد مه به به به به به من من ندر مه مند شر به به مند مر	!

Continuation message 3, if the CIO subsystem is installed.

	59	47 41	35 29		11 0
Word 2	! 0250B	! SYMPTOM	! PP ! 17B	! 0	!
Word 3	! 0	! 14B	•	! MID	0 !
Word 4	1	•	ions Installed		!
Word 5			ironment Contro	•	
Word 6	! C9 ! 30B ! ! (18)	! C10 ! 41B ! ! (21)	! C11 ! 26B ! ! (16)	! C12 ! 64B ! ! (34)	0 !
Word 7	•	•	tus Register (b	·	!

Continuation message 4, if the CIO subsystem is installed.

	59	47 41				11	0
Word 2	! 0250B	! SYMPTOM	! PP	! 17B	!	0	!
Word 3	! 0	! 14B	!	0	! MID	! (
Word 4	•	FS1 - CIO Fa	•		•	•	!
Word 5	!	FS2 - CIO Fa	ult Stat	us 2 (b	its 0 - 59)		!
Word 6		TM - CIO Tes	•		•		!
Word 7	! C13 !104B ! !(44)		! C15	! 205B ! (85)	! C16 ! 24 ! ! (A	4B! () !

Continuation message 5, if the CIO subsystem is installed.

	59		. –		29		11	0		
Word 2	! 0250B	! SYN	MPTOM	! PP	! 17B	! 0	1	!		
Word 3	! 0		! 14B	!	0	! MID	! 0	!		
Word 4	•	FSM - CIO Fault Status Mask (bits 0 - 59)								
Word 5	!	OSB -	CIO OS	Bounds	(bits 0	- 59)		!		
Word 6	!	cso -	Channel	L O Stat	tus (bit	's 0 – 59)	,	!		
Word 7	!	CS1 -	Channel	l l Stat	tus (bit	s 0 - 59)		!		

Continuation message 6, if the CIO subsystem is installed.

	59				35 +				11	0
Word 2	! 0250	ЭB	! SYM	PTOM	! PP	! 17B	•	0	1	!
Word 3	!	0	•	! 14B	! ()	! MII)	! 0	!
Word 4	! C17	34B (1C)	! C18	! 45B ! (25)	! C19	! 260B ! (B0)	C20 !	261B (B1)	! 0	!
Word 5			•	•	-		s 0 – 59			!
Word 6	!	(cs3 -	Channel	Status	3 (bits	s 0 - 59)		!
Word 7	!	(CS4 -	Channel	Status	4 (bits	s 0 – 59)		!

Continuation message 7. This is the last message if a 5-PP CIO subsystem is installed.

	59		47	41	35	29	23		11	0
Word 2	! 0250		SYM		! PP	• • •	!	0		!
Word 3	!	0		! 10B	+ ! ·	0	! MID	! !	0	!
Word 4	!			. 0	+		•			!
Word 5	! C21	! 262B! ! (B2)!	C22	! 263B ! (B3)	! C23	! 264B ! (B4)	!!!!	0		!
Word 6	!	++		+	+	0	+			!
Word 7	!					0				!

Continuation message 7, if a 10-PP CIO subsystem is installed.

	59	47	41	35	29	23		·11	0
Word 2	! 0250B	! SYM		! PP		•	0	1	!
Word 3	! 0	•	! 14B	1	D	! MII		! 0	!
Word 4	•	CS5 -	CIO Cha	nnel 5	Status	(bits 0	- 59)		!
Word 5	! C21 ! 262B ! ! (B2)	! C22	! 263B ! (B3)	! C23	! 264B ! (B4)	! C24 !	265B (B5)	! 0	!
Word 6	•	•	•	•	•	(bits 0			!
Word 7	!	CS7 -	CIO Cha	nnel 7	Status	(bits 0	- 59)		! +

Continuation message 8. This is the last message if a 10-PP CIO subsystem is installed.

	59	47	. –	35		23	11	0
Word 2	! 0250B	! SYM	PTOM	PP	17B	! 0		! !
Word 3	! 0		! 10B	! ()	! MID	! 0	 !
Word 4	!		•	•		s (bits 0 - 59	•	!
Word 5						s (bits 0 - 59	•	!
Word 6	! C25 !266B ! !(B6)	! C26 !	! 267B ! (B7)	! C27 !	270B (B8)	! C28 ! 271B ! ! (B9)	! 0	!
Word 7	[()			 !

Field	Location	Description
SYMPTOM	47-36	Symptom code. 0001B Deadstart error log IOU error. 0002B Express deadstart dump IOU error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Status register (bits 60 - 63).
C6	47-44	Fault status 1 (bits 60 - 63).
C7	35 - 32	Fault status 2 (bits 60 - 63).
C8	23-20	Test mode (bits 60 - 63).
C9	59 – 56	Fault status mask (bits 60 - 63).
C10	47-44	OS bounds (bits 60 - 63).
C11	35-32	CIO options installed (bits $60 - 63$).
C12	23-20	CIO environment control (bits 60 - 63).
C13	59-56	CIO status register (bits 60 - 63).
C14	47-44	CIO fault status 1 (bits 60 - 63).
C15	35-32	CIO fault status 2 (bits 60 - 63).
C16	23-20	CIO test mode (bits 60 - 63).
C17	59-56	CIO fault status mask (bits 60 - 63).
C18	47-44	CIO OS bounds (bits 60 - 63).
C19	35-32	CIO channel O status (bits 60 - 63).
C20	23-20	CIO channel 1 status (bits 60 - 63).
C21	59 – 56	CIO channel 2 status (bits 60 - 63).
C22	47-44	CIO channel 3 status (bits 60 - 63).
C23	35-32	CIO channel 4 status (bits 60 - 63).
C24	23-20	CIO channel 5 status (bits 60 - 63).
C25 C26	59 - 56	CIO channel 6 status (bits 60 - 63).
	47 - 44	CIO channel 7 status (bits 60 - 63).
C27 C28 ·	35 - 32 23 - 20	CIO channel 10B status (bits 60 - 63). CIO channel 11B status (bits 60 - 63).
040 .	23-20	GIO CHARRET TID STATUS (DITS OU - 03).

! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	MSGID	0250В	-! ! ! !
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	SYMPTOM	0003B, 0004B, 0005B, 0006B, 0007B, 0010B, 0011B, 0012B, 0013B	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

!
EQ!
!
!
!
9) !

Continuation message 1.

		53	• •		35		_ -	11	0
Word 2	! 0:		! SYM	PTOM	! PP	! 17B	! 0	1	!
Word 3	! 0	! D	! 0	! 14B	! ()	! MID	! SEQ	!
Word 4	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3 !	! 22B ! (12)	! C4 ! 60B	!	!
Word 5	!	•	•		egister				! !
Word 6	!		FS1 -	Fault S	tatus R	egister	1 (bits 0 - 5	9)	!
Word 7	!		FS2 -	Fault S	tatus R	egister	2 (bits 0 - 5	9)	! !

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Continuation message 2. 41 35 29· 23 11 Word 2 0250B SYMPTOM ! PP ! 17B ! Word 3 0 MID SEQ ! 0 ! 14B TM - Test Mode (bits 0 - 59)Word 4 0 Word 5 C5 ! 100B ! C6 ! 200B ! C7 ! 201B ! C8 ! 240B! ! (40) ! ! (80)! ! (81) ! ! (AO)! Word 6 FSM - Fault Status Mask (bits 0 - 59) Word 7 OSB - OS Bounds (bits 0 - 59)

Continuation message 3. This is the last message if the CIO subsystem is not installed.

	59	53		. –	35	29	23	11		0
Word 2	•	250В	! SYM		! PP	! 17B	!	0		!
Word 3		• -	! 0	! 14B	!	0	! MID	!	SEQ	!
Word 4	!	.+	-+	+		0				!
Word 5	!					0				!
Word 6	! C9	! (18)		! (21)	•		0			!
Word 7	!	-+		+		0				!

Continuation message 3, if the CIO subsystem is installed.

				41			23	11	0
Word 2	! 0:	250в	! SYN	1PT OM	! PP	! 17B	! 0		!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	! SEQ	!
Word 4	!		•	•	•		(bits 0 - 59)	 	!
Word 5	!						1 (bits 0 - 5	-	+ !
Word 6	•	! 30B ! (18)	! C10 !	! 41B ! (21)	! C11 !	! 26B ! (16)	!! (34	! 0)!	!
Word 7	! !		•	•	•	•	its 0 - 59)		+ ! +

Continuation message 4, if the CIO subsystem is installed.

			35		23	11	0
Word 2	! 0250B	! SYMPTO		! 17B !	0		• !
Word 3	! 0 ! D	! 0 ! 1	L4B ! C) !	MID	! SEQ	!
Word 4	!		Fault Statu	•			!
Word 5	!	FS2 - CIO) Fault Statu	ıs 2 (bi	.ts 0 - 59)		!
Word 6	!		Test Mode (h		- 59)	1	!
Word 7	! C13 !10 ! !(4	4B ! C14 ! 2 4) ! ! (204B ! C15 ! (84) ! !	205B! (85)!	C16 ! 244B	! 0 !	!

Continuation message 5, if the CIO subsystem is installed.

		-		41			23	11	0
Word 2	! 0:	250B	! SY	MPTOM	! PP	! 17B	! 0	1	!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	! SEQ	!
Word 4	!			•	•		(bits 0 - 59)		!
Word 5	!		osb -	CIO OS	Bounds	(bits 0	- 59)		!
Word 6	!					0			!
Word 7	!					0			!

Continuation message 6, if the CIO subsystem is installed.

	59	53	47	41		29	23	1	11	0
Word 2			! SYM	PTOM	! PP	! 17B	•	0 ,	,	!
Word 3	! 0	•	! 0	! 14B	!	0	! MID	!	SEQ	!
Word 4	! C17	! 34B ! (1C)	! C18	! 45B ! (25)	!!		0			!
Word 5	!	-+				0				!
Word 6	!					0				!
Word 7	!					0				!

Continuation message 7. For DFT revision levels greater than 3, these messages are always present, regardless of whether a CIO subsystem is installed They are not issued for DFT level 3.

	59	53	47	41	35	29	23	. 13	l 	0
	! 02		! SYM		! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 04B	!	0	! MID	!	SEQ	!
Word 4	!			•	l (bits		•			!
Word 5	!			Word	2 (bits	0 - 59)			!
Word 6	!			Word	3 (bits	0 - 59)			!
Word 7	!				0					!
	T									

Continuation message 8.

	59				35				l 1	. 0
Word 2	! 02!	50в	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 10B	!)	! MID	!	SEC	
Word 4	! W1	! 0	! W2	! 0	! W3	! 0	!	0		!
Word 5	!				0	T				!
Word 6	!				0					!
Word 7	!				0					!

	<u>Field</u>	Location	Description
	SYMPTOM	47-36	Symptom code. 0003B Corrected IOU error (I4 only). 0004B Uncorrected IOU error (PP halt). 0005B 12/16 IOU conversion error. 0006B Fatal IOU error. 0007B Channel error. 0010B Fatal IOU error (CIO PP). 0011B Uncorrected IOU error (CIO PP halt). 0012B 12/16 IOU conversion error (CIO PP). 0013B Uncorrected channel error (CIO PP).
	PP	35-30	PP that detected the error.
	D	53-48	DFT revision level.
•	MID	23-12	Machine identifier.
	SEQ	11-0	DFT sequence identifier.
•	C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Dependent environment control (bits 60 - 63). Status register (bits 60 - 63). Fault status 1 (bits 60 - 63). Fault status 2 (bits 60 - 63). Test mode (bits 60 - 63). Fault status mask (bits 60 - 63). CIO options installed (bits 60 - 63). CIO environment control (bits 60 - 63). CIO status register (bits 60 - 63). CIO fault status 1 (bits 60 - 63). CIO fault status 2 (bits 60 - 63). CIO fault status 2 (bits 60 - 63). CIO fault status 8 (bits 60 - 63). CIO fault status 9 (bits 60 - 63). CIO fault status 1 (bits 60 - 63). CIO fault status mask (bits 60 - 63).
ı	C18 W1	47 – 44 59 – 56	CIO OS bounds (bits 60 - 63). Word 1 (bits 60 - 63). (Data from DFT Supportive
	W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive
	W3	35-32	Status Buffer.) Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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! ! MAINFRAME ! (180 CLASS EXCEPT 990)	MSGID 0250B
! ! MEMORY ERROR !	SYMPTOM 0401B, 0402B

	59	47 41	35	29	23	11		0
Word 2		! SYMPTOM	! PP	•	!	0		!
Word 3	! 0	! 04B	1	0	! MID	!	0	!
Word 4	•	EID - Element	•		•			!
Word 5	!	SS - Status S	Summary	(bits 0	- 59)			!
Word 6	! !	OI - Options	Install	ed (bit	s 0 - 59)			!
Word 7	!	EC - Environ	nent Con	trol (b	its 0 - 59)			!
-								- T

Continuation message 1.

	59			. –	35 +		23		11	0
Word 2	! 025	0B	! SYM	PTOM	-	! 17B	!	0		!
Word 3	!	0	•	! 14B	! ()	! MII	_	! 0	!
Word 4	! C1	! 20B ! (10)	. C2 !	! 00B	! C3	! 22B	! C4	•	! 0	!
Word 5	!	•	•	•	•	r Log (bits 0 -	- 59)		!
Word 6	!	1	UEL1 -	Uncorr	ectable	Error	Log 1 (1	oits 0	- 59)	!
Word 7	!		UEL2 -	Uncorr	ectable	Error	Log 2 (1	oits 0	- 59)	! +

	59	47	41	35	29	23		11	0
Word 2	! 0250B	! S	MPTOM	! PP	! 17B	!	0		!
Word 3	!	0	! 10B	!	0	! MID)	! 0	!
Word 4	!	BR - 1	Bounds R	legiste:	(bits	0 - 59)		 	!
Word 5		40B! C6	! 244B ! (A4)		! 250B ! (A8)	!!!		•	!
Word 6	!		- +		0	· † -		 	!
Word 7	!				0			·	!
Field SYMPTOM	<u>Locatio</u> 47-36	 Sympt 040		dstart	•	og memor	-		
PP	35 - 30	PP tl	nat dete	cted th	ne error	•			
MID	23-12	Mach	ine ider	tifier	•				
C1 C2 C3 C4 C5 C6 C7	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	State Option Environ Corre Uncor Uncor	s summands instantations instantations in stantations in summarked erectables of the summarked in summarked i	ary (bit alled (control eror log e error	s 60 - bits 60 bits bits log 1	60 - 63). 60 - 63) 60 - 63) (bits 60) (bits 60)	• 63)		

5-110 60459940 E

! MAINFRAME ! (MODEL 990)	MSGID	0250в		!
! MEMORY ERROR !	SYMPTOM	0401B,	0402в	!

	59	47	41	35	29	23	1	.1	0
Word 2	! 0250B			PP	17B	!	0		!
Word 3	! 0	•	04B	*	•	! MID	!	0	!
Word 4	!	EID - E	lement	Identi	ier (b	its 0 - 59)			!
Word 5	!	SS - Status Summary (bits 0 - 59)							
Word 6	!	0p	tions	Installe	ed (bit	s 0 - 59)			!
Word 7	!	EC – En	vironme	ent Cont	rol (b	its 0 – 59)			!,
	'								- 1

Continuation message 1.

	59 +	47 41			23	11	0
Word 2	! 0250B	•	! PP !	17B	! 0		!
Word 3	! 0	! 14B	! ()	! MID	! 0	!
Word 4	! C1 ! 20B ! ! (10)	! C2 ! OOB !	! C3 !	22B (12)	! C4 ! 40B	!	!
Word 5	•	•	•) (bits 0 - 59	•	!
Word 6	!	CELl - Correct	ted Erro	r Log	l (bits 0 - 59)	!
Word 7	!	CEL2 - Correct	ted Erro	r Log 2	2 (bits 0 - 59)	! +

	59		· -	35			11	0
Word 2	! 0250B	! SYM	PTOM	! PP	! 17B	! 0	1	!
Word 3	! 0	•	! 14B	! (ò	! MID	! 0	!
Word 4	!	CEL3 -	Correc	ted Err	or Log	13 (bits 0 - 59)	!
Word 5	! C5 ! 240E	3! C6	! 241B	! C7	! 242B	! C8 ! 243B ! ! (A3)	! 0	!
Word 6	!	UELO -	Uncorr	ectable	Error	Log 0 (bits 0	- 59)	!
Word 7	!	UEL1 -	Uncorr	ectable	Error	Log l (bits 0	- 59)	! !

Continuation message 3.

	59		41				11	0
Word 2	! 0250B	! SYM	PTOM	! PP	! 17B	! 0		!
Word 3	! 0	·	! 14B	1	0	! MID	! 0	<u>+</u>
Word 4	!		•	•		Log 2 (bits 0	- 59)	+ !
Word 5	!					Log 3 (bits 0		 !
Word 6	! C9 ! 2441 ! ! (A4)	3! C10)!	! 245B ! (A5)	! C11	! 246B ! (A6)	! C12 ! 247B ! ! (A7)	! 0	+ !
Word 7	!	•	ounds R	-	-	0 - 59)		+ ! +

Continuation message 4.

	59			41			23	1	1	0
Word 2	! 0250	В !	SY	MPTOM	! PP	! 17B	!	0		!
Word 3	1	0		! 10B	!	0	! MID	!	0	!
Word 4	!					0				!
Word 5	!					0				!
Word 6	!					0				!
Word 7		41B ! (21)!				0				!
	T									+

Field	Location	Description
SYMPTOM	47 – 36	Symptom code. 0401B Deadstart error log memory error. 0402B Express deadstart dump memory error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47 - 44	Status summary (bits 60 - 63).
C3	35 - 32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59 – 56	Corrected error log 0 (bits 60 - 63).
C6	47-44	Corrected error log 1 (bits 60 - 63).
C7	35 - 32	Corrected error log 2 (bits 60 - 63).
C8	23-20	Corrected error log 3 (bits 60 - 63).
C9	59-56	Uncorrectable error log 0 (bits 60 - 63).
C10	47-44	Uncorrectable error log 1 (bits 60 - 63).
C11	35 - 32	Uncorrectable error log 2 (bits 60 - 63).
C12	23-20	Uncorrectable error log 3 (bits 60 - 63).
C13	59-56	Bounds register (bits $60 - 63$).

! ! MAINFRAME ! ! (180 CLASS EXCEPT 990) !	MSGID 0250B	!!!
! ! MEMORY ERROR !	SYMPTOM 0403B, 0404B, 0405B	:!!!

			• •	41				11		0
Word 2	! 0	0250B ! SYMPTOM				! 17B	! 0			!
	! 0	! D	! 0	! 04B	!	0	! MID.	!	SEQ	!
Word 4	!	EID - Element Identifier (bits 0 - 59)								
Word 5	!	SS - Status Summary (bits 0 - 59)								
Word 6	!	OI - Options Installed (bits 0 - 59)								!
Word 7	!		EC -	Environm	ent Con	trol (l	oits 0 - 59)			!
	T									T-

Continuation message 1.

	59		47		35	29			11	0
Word 2	! 02.	50B	! SYM	PTOM	! PP !	17B	•	0		!
Word 3	! 0	! D	! 0	! 14B	! ()	! MID)	! SEQ	!
Word 4	! C1	! 20B ! (10)	! C2	! 00B ! (00)	! C3 !	22B (12)	! C4 ! ! !	40B (20)	! 0 !	!
Word 5	! !	•	*	•	•		 bits 0			!
Word 6	!	UEL1 - Uncorrectable Error Log 1 (bits 0 - 59)								
Word 7	!	UEL2 - Uncorrectable Error Log 2 (bits 0 - 59) !								

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	59	53	47	41	35	29	23	11	0
Word 2		250B	! SYM			! 17B	! 0		!
Word 3	! 0	! D	! 0	! 10B	!	0	! MID	! SEQ	!
Word 4	!		BR	- Bound	s Regis	ter (bi	ts 0 - 59)		!
Word 5	! C5	! 240B ! (A0)	! C6	! 244B ! (A4)	! C7	! 250B ! (A8)	! C8 ! 41B		!
Word 6	!				 	0	 		!
Word 7	!					0 ·			! !

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

	59			41]	11	0
Word 2	! 0:	250B	! SY	-	! PP	! 17B	!	0 ,		!
Word 3	! 01B	! D	! 0	! 04B	!	0	! MID	!	SEQ	!
Word 4	!	Word 1 (bits 0 - 59)								
Word 5	!			Word	2 (bits	0 - 59)		_	!
Word 6	!	Word 3 (bits 0 - 59)								!
Word 7	!	0 !								!

Continuation message 4.

		47 41		23	11 0			
Word 2	! 0250В	•	! PP ! 17	7B ! 0	!			
Word 3	! 01B ! D	! 0 ! 10B	! 0	! MID	! SEQ !			
Word 4	! W1 ! O		! W3 ! C) ! 0	. !			
Word 5	!		0		!			
Word 6	!		0		!			
Word 7	0 !							

<u>Field</u>	Location	Description
SYMPTOM	47-36	Symptom code. 0403B Corrected memory error. 0404B Uncorrected memory error. 0405B Multiple odd bit error.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1 C2 C3 C4 C5 C6 C7	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Environment control (bits 60 - 63). Corrected error log (bits 60 - 63). Uncorrectable error log 1 (bits 60 - 63). Uncorrectable error log 2 (bits 60 - 63). Bounds register (bits 60 - 63).
W1	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

! MAINFRAME ! (MODEL 990)	! ! MSGID	0250В		,
! ! MEMORY ERROR !	SYMPTOM	0403в,	0404B,	0405в

	• • • • • • • • • • • • • • • • • • • •	47 41		23	11	0				
Word 2	! 0250B		! PP ! 17B	! 0		!				
Word 3	! O ! D	! 0 ! 04B	! 0	•	! SEQ	!				
Word 4		EID - Element Identifier (bits 0 - 59)								
Word 5	!	SS - Status Summary (bits 0 - 59)								
Word 6	!	OI - Options Installed (bits 0 - 59)								
Word 7	!	EC - Environment Control (bits 0 - 59)								
	T									

Continuation message 1.

	59				35		23		11	0
Word 2	! 02	50в	! SYM	PTOM	! PP	! 17B	•	0		!
Word 3	! 0	! D	! 0	! 04B)	! MII	•	SEQ	!
Word 4	! C1	! 20B ! (10)	! C2	! 00B ! (00)	! C3	22B (12)	! C4 !	40B . ! (20) !	. 0	!
Word 5	!	•	•	•	•	•) (bits			!
Word 6	!		CEL1 -	Correc	ted Err	or Log	l (bits	0 - 59)		!
Word 7	!		CEL2 -	Correc	ted Err	or Log	2 (bits	0 - 59)		!

								11	0
! 0:	250B	! SY	MPTOM	! PP	! 17B	1	0		!
! 0	! D	! 0	! 10B	!	0	! MI	D	. SEQ	!
!		CEL3	- Correc	ted Er	ror Log	3 (bits	0 - 59)	!
! C5	! 240B ! (A0)	! C6	! 241B ! (A1)	! C7	! 242B ! (A2)	! C8	! 243B ! (A3)	! 0 !	!
!	•	•	•	•	•	•	•	•	!
!	υ	EL1 -	Uncorrec	table	Error Lo	g l (bi	ts 0 - 5	59)	!
	! 0: ! 0: ! 0: ! C5:	! 0250B ! 0 ! D ! 0 ! D !	! 0250B ! SY ! 0 ! D ! 0 ! CEL3 ! C5 ! 240B ! C6 ! ! (A0) !	! 0250B ! SYMPTOM ! 0 ! D ! 0 ! 10B ! CEL3 - Correct! ! C5 ! 240B ! C6 ! 241B ! ! (A0) ! ! (A1) ! UEL0 - Uncorrect!	! 0250B ! SYMPTOM ! PP ! 0 ! D ! 0 ! 10B ! ! CEL3 - Corrected Er: ! C5 ! 240B ! C6 ! 241B ! C7 ! ! (A0) ! ! (A1) ! ! UEL0 - Uncorrectable	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! D ! 0 ! 10B ! 0 ! CEL3 - Corrected Error Log ! C5 ! 240B ! C6 ! 241B ! C7 ! 242B ! ! (A0) ! ! (A1) ! ! (A2) ! UEL0 - Uncorrectable Error Log	! O ! D ! O ! 10B ! O ! MI ! CEL3 - Corrected Error Log 3 (bits ! C5 ! 240B ! C6 ! 241B ! C7 ! 242B ! C8 ! ! (A0) ! ! (A1) ! ! (A2) ! ! UELO - Uncorrectable Error Log 0 (bi	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 10B ! 0 ! MID ! CEL3 - Corrected Error Log 3 (bits 0 - 59 ! C5 ! 240B ! C6 ! 241B ! C7 ! 242B ! C8 ! 243B ! ! (A0) ! ! (A1) ! ! (A2) ! ! (A3) ! UEL0 - Uncorrectable Error Log 0 (bits 0 - 1)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 10B ! 0 ! MID ! SEQ ! CEL3 - Corrected Error Log 3 (bits 0 - 59)

Continuation message 3.

	59 +		35 29	23	11 0
Word 2	•	! SYMPTOM	! PP ! 17B	! 0	!
Word 3	! 0	! 14B	! 0	! MID	! 0 !
Word 4	! UE:	•	•	og 2 (bits 0 -	•
Word 5				og 3 (bits 0	
Word 6	! C9 ! 244B ! ! (A4)	! C10 ! 245B ! ! (A5)	! C11 ! 2461 ! ! (A6)	B ! C12 ! 247B) ! ! (A7)	1 0 !
Word 7	!	•	ds Register (1	oits 0 - 59)	! +

Continuation message 4.

	59				35 - 				11	0
Word 2	! 0250	В!	SYM	PTOM	! PP	! 17B	!	0		!
Word 3	!	0		! 10B	!	0	! MID	•	0	!
Word 4	!					0				!
Word 5	!					0				!
Word 6	!					0				!
Word 7	! C13 !	41B ! (21) !								!

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These messages are issued for DFT revision levels greater than 3. Continuation message 5.

59	53		• -			23		11	0
• -		! SY	MPTOM	! PP	! 17B	!	0		!
! 01B	! D	! 0	! 04B	!	0	! MID	!	SEQ	!
!			•	•	s 0 - 5	9)			!
!			Word	2 (bit	s 0 - 5	9)			!
!			Word	3 (bit	s 0 - 5	9)			!
!					0				!
	! 02 +	! 0250B	! 0250B ! SYI	! 0250B ! SYMPTOM ! 01B ! D ! 0 ! 04B ! Word	! 0250B ! SYMPTOM ! PP ! 01B ! D ! O ! 04B ! ! Word 1 (bit ! Word 2 (bit	! 0250B ! SYMPTOM ! PP ! 17B ! 01B ! D ! 0 ! 04B ! 0 !	! 0250B ! SYMPTOM ! PP ! 17B ! ! 01B ! D ! 0 ! 04B ! 0 ! MID	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 01B ! D ! 0 ! 04B ! 0 ! MID ! ! Word 1 (bits 0 - 59) ! Word 2 (bits 0 - 59)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 01B ! D ! O ! 04B ! O ! MID ! SEQ ! Word 1 (bits 0 - 59) ! Word 2 (bits 0 - 59)

Continuation message 6.

	59			41		29	23		.1	0
	! 02	50B	! SYN	IPTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 10B	!	0	! MID	!	SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3 !	0	!	0		!
Word 5	!	0 !							!	
Word 6	!				0					!
Word 7	! !				0			- -		!

Field	Location	Description
SYMPTOM	47-36	Symptom code. 0403B Corrected memory error. 0404B Uncorrected memory error. 0405B Multiple odd bit error.
PP	·35 - 30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Environment control (bits 60 - 63). Corrected error log 0 (bits 60 - 63). Corrected error log 1 (bits 60 - 63). Corrected error log 2 (bits 60 - 63). Corrected error log 3 (bits 60 - 63). Uncorrectable error log 0 (bits 60 - 63). Uncorrectable error log 1 (bits 60 - 63). Uncorrectable error log 2 (bits 60 - 63). Uncorrectable error log 3 (bits 60 - 63). Bounds register (bits 60 - 63).
Wl	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive
W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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! MAINFRAME ! (MODELS 8)	15, 825)	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MSGID	0250В	!
! UNCORRECTE ! ERROR !	ED PROCESSOR	!!!	SYMPTOM	1001B	! !

59	47 41	35	29	23	11	0		
. 025 02				! ()	!		
! 0	! 0	4B !	0	! MID	!	.0 !		
	EID - Element Identifier (bits 0 - 59)							
! .	SS - Status Summary (bits 0 - 59)							
OI - Options Installed (bits 0 - 59)								
!	DEC - Dep	endent En	vironment	Control (bit	s 0 -	59) !		
	! 0250B ! 0 ! 0	! 0250B ! SYMPTO	! 0250B ! SYMPTOM ! PP ! 0 ! 04B ! ! EID - Element Iden ! SS - Status Summar ! OI - Options Insta	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 04B ! 0 ! EID - Element Identifier (b ! SS - Status Summary (bits 0	! 0250B ! SYMPTOM ! PP ! 17B ! () ! 0 ! 04B ! 0 ! MID ! EID - Element Identifier (bits 0 - 59) ! SS - Status Summary (bits 0 - 59) ! OI - Options Installed (bits 0 - 59)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! 04B ! 0 ! MID ! ! EID - Element Identifier (bits 0 - 59) ! SS - Status Summary (bits 0 - 59)		

Continuation message 1.

	59			41	35 +		23		11	0.
Word 2	! 025	ОВ	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	!	0		! 14B	! ()	! MII		! 0	!
Word 4	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3	! 22B ! (12)	! C4 !	60B ! (30)	0	!
Word 5	! !	-	-	•			s (bits		-	!
Word 6	!				()				!
Word 7	!) 				!

59 		47				23	11		0
0250	В!	SYM	PTOM	! PP	! 17B	!	0		!
	0		! 10B	!	0	! MID	!	0	!
					0				!
!	(80)!				0				!
-				(0				!
					0				!
	0250 + C5 !	0250B ! 0	0250B ! SYM	0250B ! SYMPTOM 0 ! 10B C5 ! 200B! ! (80)!	0250B ! SYMPTOM ! PP 0 ! 10B ! C5 ! 200B! ! (80)!	0250B ! SYMPTOM ! PP ! 17B 0 ! 10B ! 0 C5 ! 200B! 0 ! (80)!	0250B ! SYMPTOM ! PP ! 17B ! 0 ! 10B ! 0 ! MID 0 C5 ! 200B! 0 ! (80)!	0250B ! SYMPTOM ! PP ! 17B ! 0 0 ! 10B ! 0 ! MID ! 0 C5 ! 200B! 0 ! (80)!	0250B ! SYMPTOM ! PP ! 17B ! 0 0 ! 10B ! 0 ! MID ! 0 C5 ! 200B! 0 ! (80)!

<u>Field</u>	Location	Description
SYMPTOM	47-39	Symptom code. 1001B Deadstart error log processor error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1 C2	59-56 47-44 35-32	Element identifier (bits 60 - 63). Status summary (bits 60 - 63).
C3 C4	23 - 32	Options installed (bits 60 -63). Dependent environment control (bits 60 - 63).
C5	59 - 56	Processor fault status 0 (bits 60 - 63).

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (MODELS 815, 825)	! ! !	MSGID	0250В	
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	UNCORRECTED PROCESSOR ERROR	!!!!	SYMPTOM	1004в,	1010B

		53		41			23	11	0		
Word 2	! 02	250B	! SY		! PP	! 17B	!	0	!		
Word 3	! 0	! D	! 0	! 04B	!		! MID	! SEQ	!		
Word 4	!		EID - Element Identifier (bits 0 - 59)								
Word 5	!	SS - Status Summary (bits 0 - 59)									
Word 6	!		0I - 0	Options	Install	ed (bit	s 0 - 59)		!		
Word 7	! !		DEC -	Depende	nt Envi	ronment	Control (b	its 0 - 59)	!		

Continuation message 1.

	59	53	• •	41		29	23	11	0
	! 0:		! SYM	PTOM	! PP	! 17B	! 0		!
	! 0	! D	! 0	! 14B	!	0	! MID	! SEQ	!
	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3	! 22B ! (12)	! C4 ! 60B	! 0	!
Word 5	!	•	•	-	•	•	s (bits 0 - 59		!
Word 6	!					0			!
Word 7	!					0			!

Continuation message 2. 59 53 47 41 35 29 23 11 0250B Word 2 ! ! SYMPTOM ! PP ! 17B ! 0 Word 3 ! 0 ! D ! 0 ! 14B ! 0 MID SEQ ! Word 4 ! 0 Word 5 ! C5 ! 200B ! 0 ! (80)! Word 6 ! 0 0 Word 7

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

							11	<u> </u>	0
02	50B	! SYM	PTOM	! PP	! 17B	!	0		!
01B	! D	! 0	! 04B	! () .	! MID	!	SEQ	!
			•	•			7		!
			Word 2	(bits	0 - 59)				!
			Word 3	(bits	0 - 59)				!
			Word 4	(bits	0 - 59)				!
	02. 01B	0250B	0250B ! SYM	0250B ! SYMPTOM 01B ! D ! O ! 04B Word 1 Word 2 Word 3	0250B ! SYMPTOM ! PP 01B ! D ! O ! 04B ! (Word 1 (bits (Word 2 (bits (0250B ! SYMPTOM ! PP ! 17B	01B ! D ! O ! O4B ! O . ! MID Word 1 (bits 0 - 59) Word 2 (bits 0 - 59) Word 3 (bits 0 - 59)	0250B ! SYMPTOM ! PP ! 17B ! 0 01B ! D ! 0 ! 04B ! 0 ! MID ! Word 1 (bits 0 - 59) Word 2 (bits 0 - 59) Word 3 (bits 0 - 59)	0250B ! SYMPTOM ! PP ! 17B ! 0 01B ! D ! 0 ! 04B ! 0 ! MID ! SEQ Word 1 (bits 0 - 59) Word 2 (bits 0 - 59) Word 3 (bits 0 - 59)

Continuation message 4.

	59			41		29	23		11 ·	0
	! 02	250B	! SYM	IPTOM	! PP	•	1	0		!
Word 3	! 01B	! D	! 0	! 14B	!	0	! M	[D	! SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3	! 0	! W4	, '	! 0	!
Word 5	!			•	•	0 - 59)	•			!
Word 6	!			Word 6	(bits	0 - 59)				!
Word 7	!				0					!

	59 53	47 41	35 29	23	11	0						
Word 2	! 0250B		! PP ! 17B	!	0	!						
Word 3	! 01B ! D		! 0	! MID	!	SEQ !						
Word 4	!		0									
Word 5	! W5 ! O	! O ! W6 ! O ! O										
Word 6	0											
Word 7	0											
Field SYMPTOM	<u>Location</u> 47-39											
PP	35 - 30	35-30 PP that detected the error.										
D	53-48	DFT revisi	on level.									
MID	23-12	Machine id	entifier.									
SEQ	11-0	DFT sequen	ce identifier.									
C1 C2 C3 C4	59-56 47-44 35-32 23-20 59-56	Status sum Options in Environmen	entifier (bits mary (bits 60 stalled (bits t control (bit fault status 0	- 63). 60 -63). s 60 - 63).	63).							
Wl	59 – 56	Word 1 (bi	ts 60 - 63).			ortive						
W2	47-44	Word 2 (bi	ts 60 - 63).		OFT Supp	ortive						
W3	35 - 32	Status Buffer.) Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)										
W4	23-20	Word 4 (bi	ts 60 - 63).	(Data from D	OFT Supp	ortive						
W5	59-56	Word 5 (bi	ts 60 - 63).	Status Buff (Data from I	OFT Supp	ortive						
W6	47-44	Word 6 (bi	ts 60 - 63).	Status Buff (Data from D Status Buff	OFT Supp	ortive						

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! MAINFRAME ! (MODELS 810, 830, 835)	! ! MSGID 0250B !	!!!!!!!
! UNCORRECTED PROCESSOR ! ERROR	SYMPTOM 1001B	!!!!

	59	47	41	35	29	23	11	0		
Word 2	! 0250B			! PP		! ()	!		
Word 3	! 0		! 04B	!		! MID	! 0	!		
Word 4	!	EID - Element identifier (bits 0 - 59)								
Word 5	!	ss – s	tatus S	ummary	(bits 0	- 59)		!		
Word 6	!	0I - 0	ptions	Install	ed (bit	s 0 - 59)		!		
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)								
	1							•		

Continuation message 1.

	59		35 29		11 0
Word 2	! 0250в	! SYMPTOM !	PP ! 17B	! 0	!
Word 3	! 0	! 14B !	! 0	! MID	! 0 !
Word 4	! C1 ! 20B ! ! (10)	! C2 ! OOB ! ! ! (OO)	! C3 ! 22B ! ! (12)	! C4 ! 60B	! 0 ! ! ' !
Word 5	•			us 0 (bits 0 -	
Word 6	!	PFS1 - Process		us l (bits 0 -	- 59) !
Word 7	!		0		!

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	59		47	41	35	29	23		11	0	
Word 2	! 025	0в	! SYM	PTOM	! PP	! 17B	!	0		!	
Word 3	!	0		! 10в	!	0	! MID	!	C	!	
Word 4	!			0						!	
Word 5		! 200B ! (80)		201B (81)	-					!	
Word 6	!					0				!	
Word 7	!	0 !									
Field SYMPTOM		Location Description 47-36 Symptom code. 1001B Deadstart error log processor error.									
PP	35-	30	PP tha	at dete	cted th	ne error	•				
MID	23-	12	Machin	ne iden	tifier.	•					
C1 C2 C3 C4 C5 C6	59-5 47-4 35-5 23-2 59-5 47-4	44 32 20 57	Status Option Depend Proces	s summa ns inst lent en ssor fa	ry (bit alled (vironme ult sta	s 60 - bits 60 ent cont itus 0 (3).	63).		

! MAINFRAME ! (MODELS 810, 830, 835) !	! MSGID 0250B !
! UNCORRECTED PROCESSOR ! ERROR !	SYMPTOM 1004B, 1010B

				41				11	0	
	! 0	250B	! SY		! PP	! 17B	! 0		!	
Word 3	! 0	! D	! 0	! 04B	!	0	! MID	! SEQ	!	
Word 4	!	EID - Element identifier (bits 0 - 59)								
Word 5	!		ss -	Status S	ummary	(bits 0	– 59)		!	
Word 6	!	OI - Options Installed (bits 0 - 59)								
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59) !								
	,									

Continuation message 1.

	59			-	35			11	0
	! 02	250в	! SYN	IPTOM	! PP	! 17B	! 0		!
_	! 0	! D	! 0	! 14B	!)	! MID	! SEQ	+ !
Word 4	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3	! 22B ! (12)	! C4 ! 60B ! ! (30)	! 0	!!
Word 5	!		•	•	•	•	us 0 (bits 0 -	•	!
Word 6	!		PFS1 -	Proces	sor Fau	lt Stat	us l (bits 0 -	- 59)	!
Word 7	!) 			!

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	59			41			23	1	l	0
	! 02	50B	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	!	SEQ	!
Word 4	!			+		0				!
Word 5	! C5	! (80)	! C6	•						!
Word 6	!	T				0				!
Word 7	!					0				.!
	+									+

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

				· -		29		1	l 	0
Word 2	! 02	250B	! SY	иртом	! PP	•	!	0		!
Word 3	! 01B	! D	! 0	! 04B	1	0	! MID	!	SEQ	!
Word 4	!	·		•	•	0 - 59)	+			!
Word 5	!			Word 2	(bits	0 - 59)				!
Word 6	!	- 		Word 3	(bits	0 - 59)				!
Word 7	!			Word 4	(bits	0 - 59)				!

Continuation message 4.

	59	53	47	41	35	29 +	23		11	0
Word 2	! 02	.50B	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 14B	!	0	! MI	.D	! SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3 !	! 0	! W5 !	0	! 0	!
Word 5	!	T		•		s 0 - 59)				!
Word 6	!			Word 6	(bits	s 0 – 59)				!
Word 7	!				0					!

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	59		47	-			23	11	0
Word 2	! 02	.50B	! SYM	PTOM	! PP	! 17B	!	0	!
	! 01B	! D	! 0	! 10B	!	0	! MID	!	SEQ !
Word 4	!	•		•	. 0				!
Word 5	! W5	! 0	! W6	· ! 0	!		0		!
Word 6	!				0				!
Word 7	!				0				!

Field	Location	Description
SYMPTOM	47 – 39	Symptom code. 1004B Uncorrected processor error. 1010B Fatal CPU halt.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1 C2 C3 C4 C5	59-56 47-44 35-32 23-20 59-57 47-44	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Environment control (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63).
w1	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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-	MAINFRAME (MODELS 840,845,850,855,860)	! ! !	MSGID	0250в		!!!
!	PROCESSOR ERRORS	! —- ! !	SYMPTOM	1001B,	1002B	: ! !

	59	47		35 	29		11		0
Word 2	! 0250B	! SYMI	PTOM !	PP	17B	!	0		!
Word 3	! 0	•	04B) 	! MID	!	0	!
Word 4	!	EID - E	Element	Identi	ier (b	its 0 - 59)			! !
Word 5	!	SS – St	atus Su	ımmary (bits 0	- 59)			!
Word 6	!	0I - O _F	tions 1	[nstalle	ed (bit	s 0 – 59)			!
Word 7	!	DEC - I	Depender	nt Envi	onment	Control (b	its 0 -	- 59)	!

Continuation message 1.

	59	47 41	35 29	23	11 0
Word 2	! 0250B	•	PP ! 17	В! О	!
Word 3	! 0	! 14B !	•	! MID	! 0 !
Word 4	! C1 ! 20B ! ! (10)	! C2 ! OOB ! ! ! (OO)	C3 ! 22 ! ! (1	B ! C4 ! 60B 2) ! ! (30)	! 0 ! ! !
Word 5	•	•	•	tatus 0 (bits 0 -	•
Word 6	!	PFS1 - Process	sor Fault S	tatus 1 (bits 0 ·	- 59) !
Word 7	!	PFS2 - Process	sor Fault S	tatus 2 (bits 0 ·	- 59) !

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	59		35		23	11	0
Word 2	! 0250B	! SYMPTOM	! PP	! 17B	0		!
Word 3	! 0	! 14		o :	MID	0	!
Word 4		PFS3 - Pro	cessor Fau	lt Stati	ıs 3 (bits 0 -	59)	!
Word 5	! C5 ! 200B ! ! (80)	! C6 ! 20 ! ! (8	1B ! C7	! 202B ! ! (82)	C8 ! 203B ! ! (83)	! 0 !	!
Word 6		•	•	-	ıs 4 (bits 0 -	•	!
Word 7	!	PFS5 - Pro	cessor Fau	lt Statı	ıs 5 (bits 0 -	59)	+ !

Continuation message 3.

	59			· -	35				11	0
Word 2	! 025	0B	SYM	PTOM	! PP	! 17B	!	0		!
Word 3	!	0	•	! 14B	•)	! MI	_	!	0 !
Word 4	*			•	•		•	its 0 -	59)	!
Word 5	!							its 0 -		-
Word 6	! C9	! 204B ! (84)	C10	! 205B ! (85)	! C11	! 206B ! (86)	! C12	! 207B ! (87)	!	0 !
Word 7	! +	•	•	•	•	•	•	its 0 -	•	+ ! +

Continuation message 4.

59							•	11	0
9 0250	DB !	SYM	PTOM	! PP	! 17B	!	0		!
!	0		*	•	•	! MID	!	0	!
!	I	PFS9 -	Proces	sor Fau	ılt Stat	us 9 (bits	0 - 5	59)	!
!					0	,			!
!					0				!
! C13 !	210B (88)	C14	! 211B ! (89)	i					!
	! 0250 ! ! ! ! ! ! ! C13 !	! 0250B !! 0 !! C13 ! 210B !! !! (88)	! 0250B ! SYM! ! 0 ! PFS9 - ! ! C13 ! 210B! C14 ! ! (88)!	! 0250B ! SYMPTOM ! 0 ! 14B ! PFS9 - Proces ! ! C13 ! 210B! C14 ! 211B	! 0250B ! SYMPTOM ! PP ! 0 ! 14B ! ! PFS9 - Processor Fau ! ! C13 ! 210B! C14 ! 211B ! ! ! (88)! ! (89) !	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 14B ! 0 ! PFS9 - Processor Fault State ! 0 ! 0 ! C13 ! 210B! C14 ! 211B ! ! (88)! ! (89) !	! 0250B ! SYMPTOM ! PP ! 17B ! ! 0 ! 14B ! 0 ! MID ! PFS9 - Processor Fault Status 9 (bits ! 0 ! 0 ! 13 ! 210B! C14 ! 211B ! ! (88)! ! (89) !	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! 14B ! 0 ! MID ! ! PFS9 - Processor Fault Status 9 (bits 0 - 5) ! 0 ! 0 ! C13 ! 210B! C14 ! 211B ! ! ! (88)! ! (89) !	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! 14B ! 0 ! MID ! 0 ! PFS9 - Processor Fault Status 9 (bits 0 - 59) ! 0 ! 0 ! C13 ! 210B! C14 ! 211B ! ! ! (88)! ! (89) !

Field	Location	Description
SYMPTOM	47 - 36	Symptom code. 1001B Deadstart error log processor error. 1002B Express deadstart dump processor error.
PP	35 – 30	PP that detected the error.
MID	23-12	Machine identifier.
C1.	59 – 56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35 - 32	Options installed (bits 60 -63).
C4	23 - 20	Dependent environment control (bits 60 - 63).
C5	59 – 56	Processor fault status 0 (bits 60 - 63).
C6	47 - 44	Processor fault status 1 (bits 60 - 63).
C7	35 - 32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59 – 56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35 - 32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47 - 44	Processor fault status 9 (bits 60 - 63).

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! MAINFRAME ! (MODELS 840,845,850,855,860)!	MSGID	0250В	! ! !
! PROCESSOR ERRORS !	SYMPTOM	1003B, 1004B, 1010B	! !

		-	• •	41		_,		11	0		
Word 2	! 0250	В	! SYN	MPTOM	! PP	! 17B	!	0	!		
Word 3			•	•	•	•	! MID	! SE	Q !		
Word 4	!	EID - Element Identifier (bits 0 - 59)									
Word 5	!		ss - s	Status S	ummary	(bits () - 59)		!		
Word 6	!		OI - (Options	Install	ed (bit	s 0 - 59)		!		
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59) !									
	1										

Continuation message 1.

	59			41	• •			. 11	0
	! 025	ОВ	! SYM	PTOM !	PP !	17B	•	0	!
Word 3	! 0 !	D	! 0	! 14B !)	MID	!	SEQ !
	! C1	! 20B ! (10)	! C2 !	! 00B ! ! (00)	. C3	22B (12)	C4 ! 60	OB ! 30) !	0 !
Word 5	•	•	•	•	•		ıs 0 (bits	•	!
Word 6	!		PFS1 -	Process	sor Faul	t Stati	us l (bits	0 - 59)	!
Word 7	!		PFS2 -	Process	sor Faul	t Statı	ıs 2 (bits	0 - 59)	!

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			35 29		11 0
Word 2	! 0250B	! SYMPTOM	PP ! 17B	! 0	!
Word 3	! O ! D	! 0 ! 14B	! 0	! MID	SEQ !
Word 4	1	PFS3 - Process	sor Fault Stat	us 3 (bits 0 -	59) !
Word 5	! C5 ! 200B ! ! (80)	! C6 ! 201B ! ! (81)	! C7 ! 202B ! ! (82)	! C8 ! 203B ! ! ! (83)	. 0 !
Word 6	•	•		us 4 (bits 0 -	•
Word 7	!	PFS5 - Process	sor Fault Stat	us 5 (bits 0 -	59) .!

Continuation message 3.

			47	. –	35	29	23	11	0
Word 2	! 025	ОВ	! SYM	PTOM	! PP		! 0		!
Word 3	1 0 1	D	! 0	! 14B	•	5	! MID	! SEQ	!
Word 4	!	PFS6 - Processor Fault Status 6 (bits 0 - 59)							
Word 5	!						us 7 (bits 0 -		!
Word 6	•		s! C10	•	! C11	•	! C12 ! 207B ! ! (87)	! 0	!
Word 7	!		PFS8 -	Proces	sor Fau	lt Stat	us 8 (bits 0 -	59)	!

Continuation message 4.

	59	7.7	• •	. –	35			11		0	
Word 2	! 025	OB	! SYM!	PTOM	! PP	! 17B	!	0		+ !	
Word 3			! 0	! 10B	!	0	! MID	<u>+</u>	SEQ	!	
Word 4	!	PFS9 - Processor Fault Status 9 (bits 0 - 59)									
Word 5	!					0				!	
Word 6	!					0				!	
Word 7	! C13	! 210B ! (88)	C14	•	!!!					!	

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These messages are issued for DFT revision levels greater than 3. Continuation message 5.

		59	53	47	41	35	29	23	11	0
Word	_	•		! SY		! PP	! 17B	!	0	!
Word		! 01B	! D	! 0	! 04B	!	•	! MID	!	SEQ !
Word	4	!	Word 1 (bits 0 - 59)							
Word !	5	!	Word 2 (bits 0 - 59)							
Word	6	!			Word	3 (bits	0 – 59)		!
Word	7	!			Word	4 (bits	0 – 59)		!
		T								

Continuation message 6.

	59 53	47 41	35 29		11 0			
		! SYMPTOM	PP ! 17B	! 0	!			
Word 3	! 01B ! D	! 0 ! 14B !	. 0	! MID	! SEQ !			
Word 4	! W1 ! O	! W2 ! O	! W3 ! O	! W4 ! O	1 0 !			
Word 5	<u> </u>	,	6 (bits 0 - 59)	!			
Word 6	! Word 6 (bits 0 - 59)							
Word 7	! 0							

Continuation message 7.

		47 41		23	11 0
Word 2	! 0250в	! SYMPTOM	! PP ! 17B	! 0	!
Word 3	! 01B ! D	! 0 ! 10B	! 0	! MID	! SEQ !
Word 4	!		0	7	!
Word 5	! W5 ! 0	! W6 ! O	!	0	!
Word 6	!		0		!
Word 7	!		0		!

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Field	Location	<u>Description</u>
SYMPTOM	47 - 36	Symptom code. 1003B Corrected processor error. 1004B Uncorrected processor error. 1010B Fatal CPU halt.
PP	35-30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 -63). Dependent environment control (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63). Processor fault status 2 (bits 60 - 63). Processor fault status 3 (bits 60 - 63). Processor fault status 4 (bits 60 - 63). Processor fault status 5 (bits 60 - 63). Processor fault status 6 (bits 60 - 63). Processor fault status 7 (bits 60 - 63). Processor fault status 8 (bits 60 - 63). Processor fault status 9 (bits 60 - 63).
Wl	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive
W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59 - 56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5-137 ●

! ! MAINFRAME ! (MODEL 990)	! ! MSGID !	0250В	! !
! PROCESSOR ERRORS	! SYMPTOM !	1001B, 1002B	! ! !

	59	47	41	35		23	11	0	
Word 2	! 0250B ! SYMPTOM			PP	17B	! 0			
Word 3	! 0		! 04B	! ()	! MID	! 0	! 	
Word 4	!	EID - Element Identifier (bits 0 - 59)							
Word 5	!	SS - S1	tatus Si	ummary ((bits 0	- 59)		!	
Word 6	!	OI - Options Installed (bits 0 - 59)							
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)							
	T								

Continuation message 1.

	59 ·	47 41	~ -			11	0
Word 2	! 0250в		! PP	17в	! 0		!
Word 3	! 0	! 14B	· ! ()		! 0	!
Word 4	! C1 ! 20B ! ! (10)	! C2 ! OOB ! ! (OO)	! C3 !	22B (12)	! C4 ! 60B ! .! ('30)	! 0	!
Word 5	·	•	•	•	us 0 (bits 0 -	•	!
Word 6	!	PFS1 - Proces	sor Faul	lt Stati	us 1 (bits 0 -	59)	!
Word 7	!	PFS2 - Proces	sor Faul	Lt Stati	us 2 (bits 0 -	59)	!

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	59		47	41	35	29	23		11	0
Word 2	! 025	0250B ! SYMPTOM ! PF		! PP		! 0		1	!	
Word 3	!	0		! 14B	•)	! MI	D	! 0	!
Word 4	!			Proces		lt Stat				+ !
Word 5		•	! C6	! 201B ! (81)	. C7	! 202B	! C8	•	! 0	!
Word 6	!]	PFS4 -	Proces	sor Fau	lt Stat	us 4 (b:	its 0 -	59)	<u>-</u>
Word 7	!]	PFS5 -	Proces	sor Fau	lt Stat	us 5 (b:	its 0 -	59)	+ ! +

Continuation message 3.

	59 +			35			11	0
Word 2	•	! SYM	PTOM	! PP	! 17B	! 0		!
Word 3	! 0	•	! 14B	! ()	! MID	! 0	!
Word 4	!		•	•		us 6 (bits 0 -	•	!
Word 5	!					us 7 (bits 0 -	•	!
Word 6	! C9 ! 204: ! ! (84	3! C10)!	! 205B ! (85)	! C11	206B ! (86)	! C12 ! 207B ! ! (87)	! 0	!
Word 7	!	•	•	•	•	++ us 8 (bits 0 -	•	! +

Continuation message 4.

			35 29	- -	11 0
Word 2	•	! SYMPTOM	•	! 0	!
Word 3	! 0	! 14B	! 0	! MID	! 0 !
Word 4	•	•	•	us 9 (bits 0 -	•
Word 5	!	PFS10 - Proces	ssor Fault Sta	tus 10 (bits 0	- 59) !
Word 6				tus 11 (bits 0	
Word 7	! C13 ! 210B ! ! (88)	! C14 ! 211B ! ! ! (89)	! C15 ! 212B ! ! (8A)	! C16 ! 213B !	0 !

60459940 E 5-139

	59	47	41	35	29	23	11	0
Word 2	! 0250B	,	TOM!		17B	! 0	1	!
Word 3	! 0	•	14B !	()	! MID	! 0	!
Word 4	!	PFS12 -	- Proces	ssor Fa	ılt Sta	tus 12 (bits 0	- 59)	!
Word 5	!	PFS13 -	- Proces	ssor Fa	ılt Sta	tus 13 (bits 0	- 59)	!
Word 6	!	PFS14 -	- Proces	ssor Fat	ılt Sta	tus 14 (bits 0	- 59)	!
Word 7	!	PFS15 -	- Proces	ssor Fa	ılt Stai	tus 15 (bits 0	- 59)	!

Continuation message 6.

	59		47	41		29	23		11	0
Word 2			! SYMPTOM !		! PP	! 17B	! 0			!
Word 3	1	0	•	! 10B	1	0	! MI	D	! 0	!
Word 4	! C17	!214B !(8C)	! C18	! 215B ! (8D)	! C19	! 216B ! (8E)	! C20	! 217B ! (8F)	! 0	!
Word 5	!					0				!
Word 6	!					0				!
Word 7	!					0				!

Location	Description
47-36	Symptom code. 1001B Deadstart error log processor error. 1002B Express deadstart dump processor error.
35 - 30	PP that detected the error.
23-12	Machine identifier.
59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Dependent environment control (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63). Processor fault status 2 (bits 60 - 63). Processor fault status 3 (bits 60 - 63). Processor fault status 4 (bits 60 - 63). Processor fault status 5 (bits 60 - 63). Processor fault status 6 (bits 60 - 63). Processor fault status 7 (bits 60 - 63). Processor fault status 8 (bits 60 - 63). Processor fault status 9 (bits 60 - 63). Processor fault status 10 (bits 60 - 63). Processor fault status 11 (bits 60 - 63). Processor fault status 12 (bits 60 - 63). Processor fault status 13 (bits 60 - 63). Processor fault status 14 (bits 60 - 63). Processor fault status 14 (bits 60 - 63).
23-20	Processor fault status 15 (bits 60 - 63).
	47-36 35-30 23-12 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32

60459940 E 5-141

! MAINFRAME ! (MODEL 990)	! ! MSGID	0250в			! !
PROCESSOR ERRORS ! !	SYMPTOM	1003B, 1014B, 1036B		1013B, 1032B,	

	59	53		41			23	11	0		
Word 2	•	250B	! SY		! PP	! 17B	!)	!		
Word 3	! 0	! D	! 0	! 04B	!	0	! MID	! SEQ	!		
Word 4	!	EID - Element Identifier (bits 0 - 59)									
Word 5	! !	SS - Status Summary (bits 0 - 59)									
Word 6	!	OI - Options Installed (bits 0 - 59)									
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)									
	T										

Continuation message 1.

	59						-	35 			_		11	0
Word 2	! (25	ОВ	!	SY	MP	TOM	! PP	! 17B	!		0	· · · · · ·	!
Word 3	! 0	!	D	!	0	!	14B	! ()	!	MII		! SEQ	!
Word 4	•	. !	20B	!	C2	!	00B	! C3 !	! 22B	!	C4 !		-	!
Word 5	!	- 		PI	350	_	Proces	sor Faul	lt Stati	us 	0 (bi	ts 0 -	59)	!
Word 6	!			PI	7S1	<u>-</u>	Proces	sor Fau	lt Stati	us	l (bi	.ts 0 –	59)	!
Word 7	!			PI	FS2	_	Proces	sor Fau	lt Stati	us	2 (bi	ts 0 -	59)	! +

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	59				35 +			11	0
Word 2	! 02	50в	! SYM	PTOM	! PP	17B	. 0		!
Word 3	! 0	! D	! 0	! 14B	!· ()	MID	! SEQ	!
Word 4	!	•	PFS3 -	Proces	sor Faul	Lt Stati	ıs 3 (bits 0 -	59)	!
Word 5	! C5	! 200B ! (80)	! C6	! 201B ! (81)	! C7	202B (82)	C8 ! 203B ! (83)	! 0	!
Word 6	!			•	•		ıs 4 (bits 0 -	·	!
Word 7	! 		PFS5 -	Proces	sor Faul	t Stati	ıs 5 (bits 0 -	59)	+ ! +

Continuation message 3.

	59	53	47	41	35	29	23	11	0
Word 2	•		! SYN	IPTOM	! PP	•	! 0		!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	! SEQ	!
Word 4	!		•	•	•		us 6 (bits 0 -	. 59)	!
Word 5	!						us 7 (bits 0 -		!
Word 6	! C9	! 204B ! (84)	! C10	! 205B ! (85)	! C11 !	! 206B ! (86)	! C12 ! 207B ! ! (87)	! 0 !	!
Word 7	!		•	•	•	•	us 8 (bits 0 -	•	+ ! +

Continuation message 4.

			• •		35				11	0	
	. 02.	50B	! SYMI	PTOM	PP !	17B	_	0	L	!	
Word 3	! 0	! D	! 0	14B	! 0)	! MII)	! SEQ	!	
Word 4	!	PFS9 - Processor Fault Status 9 (bits 0 - 59)									
Word 5	!	PFS10 - Processor Fault Status 10 (bits 0 - 59)									
Word 6	!	PFS11 - Processor Fault Status 11 (bits 0 - 59)									
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		! C14 :	! 211B : ! (89)	C15	212B ! (8A)	! C16	213B (8B)	! 0	!	

60459940 E 5-143

			35 29		11	0					
	! 0250B	! SYMPTOM	PP ! 17B	! 0	1	!					
	! O ! D	! 0 ! 14B !	. 0	! MID	! SEQ	!					
Word 4	•	PFS12 - Processor Fault Status 12 (bits 0 - 59)									
Word 5	!	PFS13 - Proces	ssor Fault Sta	tus 13 (bits 0	- 59)	!					
Word 6	!	PFS14 - Proces	ssor Fault Sta	tus 14 (bits 0	- 59)	!					
Word 7	!	PFS15 - Proces	ssor Fault Sta	tus 15 (bits 0	- 59)	- -					

Continuation message 6.

	59	53		41			23		11	0
	! 02	50B	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 0	! D	! 0	! 10B	!	0	! MI	D	! SEQ	!
	! C17	! 214B ! (8C)	! C18	! 215B ! (8D)	! C19	! 216B ! (8E)	! C20 !	! 217B ! (8F)	! 0	!
Word 5	!					0				!
Word 6	!					0				!
Word 7	!					0				! !

• 5-144 60459940 E

These messages are issued for DFT revision levels greater than 3.

Continuation message 7.

	_	59	53			35			11		0
Word	_	! 02		! SYM	IPTOM	! PP	17B	!	0		!
Word	3	! 01B	! D	! 0	! 04B	! ()	! MID	!	SEQ	!
Word		!			•	(bits (!
Word	5	!			Word 2	(bits (– 59)				!
Word	6	!			Word 3	(bits (– 59)				!
Word	7	! !			Word 4	(bits (– 59)				!
	-	T									

Continuation message 8.

	59	• •	47	. –		29	23		11	0
Word 2	! 02	250B	! SYM	IPTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 14B	!	•	! M	ID	! SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3 !	! 0	! W4 !	0	! 0	!
Word 5	!	! Word 5 (bits 0 - 59)								
Word 6	!	Word 6 (bits 0 - 59)								
Word 7	!	! 0								!

Continuation message 9.

		_		41	35		23	1	1	0
	! 0250	ЭB	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3		D	! 0	! 10B	<u>.</u>	0	! MID	!	SEQ	!
Word 4	!				0					!
Word 5	! W5 !	0	! W6	! 0	!		. 0			!
Word 6	!				0					!
Word 7	!				0					!

60459940 E

Continuation message 10. (As many continuation messages as necessary are issued for the model dependent buffer data).

	59	53	47	41	35	29	23	11		0		
Word 2							!	0		!		
Word 3	! 02B	! D	!	SEQ	!							
Word 4 . Word 18	!	Bits 4 - 63 of the first 15 words of ! the Model Dependent Buffer !										
Word 19	! !	Bits 0 - 3 of each of the 15 above words !										
Word 20 • • Word 34	! !	Bits 4 - 63 of the second 15 words of ! the Model Dependent Buffer !										
Word 35	!	В	its 0 -	- 3 of (each of	the 15	above word	5		!		
Word 36 • • Word 50	! ! !	Bits 4 - 63 of the second 15 words of ! the Model Dependent Buffer										
Word 51	! !	В	its 0 -	- 3 of	each of	the 15	above word	5 		! +		

Field	Location	Description
SYMPTOM	47-36	Symptom code. 1003B Corrected processor error. 1004B Uncorrected processor error. 1010B Fatal CPU halt (class 1). 1013B Fatal CPU recovery error. 1014B Corrected processor error with cache reload. 1015B Fatal CPU uncorrected error. 1031B Forced uncorrected error. 1032B Fatal CPU halt (class 2). 1033B Retry converted to uncorrected error. 1036B Partial write address parity error.
PP	35 - 30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Dependent environment control (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63). Processor fault status 2 (bits 60 - 63). Processor fault status 3 (bits 60 - 63). Processor fault status 4 (bits 60 - 63). Processor fault status 5 (bits 60 - 63). Processor fault status 6 (bits 60 - 63). Processor fault status 7 (bits 60 - 63). Processor fault status 8 (bits 60 - 63). Processor fault status 9 (bits 60 - 63). Processor fault status 10 (bits 60 - 63). Processor fault status 11 (bits 60 - 63). Processor fault status 12 (bits 60 - 63). Processor fault status 13 (bits 60 - 63). Processor fault status 14 (bits 60 - 63). Processor fault status 15 (bits 60 - 63).
W1	59 – 56	Word 1 (bits 60 - 63). (Data from DFT Supportive
W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive
W3	35-32	Status Buffer.) Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23 - 20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59 - 56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47 - 44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5-147 ●

•	MAINFRAME (MODELS 810, 815, 825,	! ! 830)!	MSGID	0250В	
-	EXPRESS DEADSTART DUMP PROCESSOR ERROR	! ! !	SYMPTOM	1002B	1

59	. · · · · -				11	0				
	! 1002B	! PP	! 17B	!	0	!				
0	! 04	В!	0	! MID	!	0 !				
EID - Element Identifier (bits 0 - 59)										
	SS - Status Summary (bits 0 - 59)									
OI - Options Installed (bits 0 - 59)										
DEC - Dependent Environment Control (bits 0 - 59)										
	0250B 0	0250B ! 1002B 0 ! 04 EID - Elem SS - Statu OI - Optic	0250B ! 1002B ! PP 0 ! 04B ! EID - Element Ident SS - Status Summary OI - Options Instal	0250B ! 1002B ! PP ! 17B 0	0250B ! 1002B ! PP ! 17B ! 0	0250B ! 1002B ! PP ! 17B ! 0 0 ! 04B ! 0 ! MID ! EID - Element Identifier (bits 0 - 59) SS - Status Summary (bits 0 - 59) OI - Options Installed (bits 0 - 59)				

Continuation message 1.

	59		47	41	35	29	23		11	0
Word 2	! 0250	'	10		! PP		•	0		!
Word 3	!	0		! 14B	! ()	! MII	-	! 0	!
Word 4	! C1	•	! C2	! 00B	•	! 22B	! C4 !			!
Word 5	!	MCEL - Map Corrected Error Log (bits 0 - 59)								!
Word 6	!	RCEL - Retry Corrected Error Log (bits 0 - 59)								!
Word 7	CSEL - Contr				1 Store	Error	Log (bit	s 0 -	59)	!

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4	59		47		35	29	23	11	0
Word 2	! 025	OB !	100	2B	! PP	! 17B	! 0		!
Word 3	!	0	!	14B	!	0	! MID	! 0	!
Word 4	!	PFSO - Processor Fault Status 0 (bits 0 - 59)							!
Word 5	! C5	•	C6	•	. C7	•	! C8 ! 200B	! 0	!
Word 6	!	PF	S1 - P	rocess	or Fal	ılt Stat	us 1 (bits 0 -	59)	!
Word 7	!					0			! +

Continuation message 3.

	59		47	35	29	23		11	0
Word 2	! 025	0250в ! 1002в		! PP	! 17B	!	0		!
Word 3	!	0 ! 10B		! 0		! MID	! !	0	!
Word 4	!				0				
Word 5	!				0				
Word 6	! C9	! 201B! ! (81)!			0				!
Word 7	!				0				!

Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1 C2 C3 C4	59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 -63). Dependent environment control (bits 60 - 63).
C5 C6	59 - 57 47 - 44	Map corrected error log (bits 60 - 63). Retry corrected error log (bits 60 - 63).
C7	35-32	Control store error log (bits 60 - 63).
C8	23 - 20	Processor fault status 0 (bits 60 - 63).
C9 .	59 - 57	Processor fault status 1 (bits 60 - 63).

60459940 E 5-149.

•	MAINFRAME (MODEL 835)	! ! !	MSGID	0250B !
•	EXPRESS DEADSTART DUMP PROCESSOR ERROR	! ! !	SYMPTOM	1002B

	59	47 41	35	_,	23	11	0			
Word 2	! 0250B	•	! PP !		! 0		!			
Word 3	! 0	! 04B	! 0		! MID	! 0	!			
Word 4	EID - Element Identifier (bits 0 - 59)									
Word 5	!	SS - Status Summary (bits 0 - 59)								
Word 6	!	OI - Options Installed (bits 0 - 59)								
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)								
	•						•			

Continuation message 1.

	59		47	. –	35		23		11	0
Word 2	! 025	-	! 10	02B	! PP	! 17B	•	0	1	!
Word 3	!	0	•	! 14B	•)	! MII	-	! 0	!
Word 4	•	•	! C2	•	! C3	•	! C4 !		! 0	!
Word 5	!]	RCEL -	Retry	Correct	ed Erro	r Log (1	oits 0	- 59)	!
Word 6	!	CCEL - Cache Corrected Error Log (bits 0 - 59)								
Word 7	!		PFSO -	Proces	sor Fau	lt Stati	us O (bi	its 0 -	59)	!

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	59	47 41	35 29	23	11 0
Word 2	! 0250B	! 1002B	PP ! 17B !	0	!
Word 3	! 0	! 10B	•	MID	0 !
Word 4	!	PFS1 - Process	sor Fault Stati	us 1 (bits 0 -	59) !
Word 5	! C5 ! 220 ! ! (90	B! C6 ! 222B	! C7 ! 200B ! ! (80)	! C8 ! 201B ! ! (81)	! 0 ! ! !
Word 6	!		0		!
Word 7	!		0		!

Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1 C2 C3 C4 C5 C6 C7	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 -63). Dependent environment control (bits 60 - 63). Retry corrected error Log (bits 60 - 63). Cache corrected error Log (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63).

60459940 E 5-151

	MAINFRAME (MODELS 815, 825)	! ! !	MSGID	0250в !
!!!!	CORRECTED PROCESSOR ERROR	! ! !	SYMPTOM	1003в

	59		47	• •	35	29	23	11		0	
Word 2			•		! PP	! 17B	!	0		!	
Word 3	! 0	! D	! 0	! 04B	!	0	! MID	!	SEQ	!	
Word 4	!	EID - Element Identifier (bits 0 - 59)									
Word 5	!	SS - Status Summary (bits 0 - 59)									
Word 6	! .	OI - Options Installed (bits 0 - 59)									
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)									

Continuation message 1.

	59			• =			23		11	0	
Word 2	! 02	50в	1003B !		! PP	! 17B	! 0		1	!	
Word 3	! 0	! D	! 0	1 4B)	! MII	=	! SEQ	!	
Word 4	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3	22B (12)	! C4 !	60B (30)	! 0	!	
Word 5	!	•	•	•	Correct		•		59)	!	
Word 6	!	MCEL - Map Corrected Error Log (bits 0 - 59)									
Word 7	!	! 0 !									

5-152 60459940 E

uation message 2.

Ţ -					29 		11	
2 ! 02		100	3B !	PP	! 17B	! 0	1	!
3 ! 0		. 0 !	10B !	(Ò		! SEQ	!
4 !			·	()			!
	! 220B ! ! (90)	!	! (93)	!		0		!!
6 !				()			!
7 !				()			!

messages are issued for DFT revision levels greater than $3 \cdot$

uation message 3.

	59	53	47	41	35		23	11		0
2	• •				PP	! 17B !	! !	0		!
3		! D	! 0		! ()	! MID	!	SEQ	!
4	!		T	•	(bits (O – 59)				!
5	!			Word 2	(bits (0 - 59)				!
6	!			Word 3	(bits (0 - 59)				!
7	!			Word 4	(bits (0 – 59)				!

uation message 4.

		53		41	35	29	23		11	0
2	! 02	50в	! S			PP ! 17B !		0		!
3	! 01B	! D	! 0	! 14B	1	0 !		MID	! SEQ	!
4	•	•	•	•	•	! 0	! W4	! 0	! .0	!
5	!			Word 5	(bit	s 0 - 59)				!
6	!	Word 6 (bits 0 - 59)								
7	! 0								!	

! MAINFRAME ! (MODELS 810, 830)	! ! MSGID !	0250В
! CORRECTED PROCESSOR ERROR	! ! SYMPTOM !	1003В

	59	53	47	41	35	29	23	11	0	
		0250B				! 17B	! 0		!	
	! 0	! D	! 0	! 04B	!	0	! MID ! SEQ		!	
Word 4	!	EID - Element identifier (bits 0 - 59)								
Word 5	!	SS - Status Summary (bits 0 - 59) !								
Word 6	!	OI - Options Installed (bits 0 - 59)								
Word 7	! DEC - Dependent Environment Control (bits 0 - 59) !									
	+								+	

Continuation message 1.

			. –					11	0
! 0250в		! 1003B		! PP	! 17B	! 0		L	!
! 0	! D	! 0	! 14B	! ()	! MI	D	! SEQ	!
! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	! C3	! 22B ! (12)	! C4 !	! 60B ! (30)	! 0	!
!	MCEL - Map Corrected Error Log (bits 0 - 59)								
! !	RCEL - Retry Corrected Error Log (bits 0 - 59)								
CSEL - Control Store Error Log (bits 0 - 59)									
	! 02 ! 02 ! 0 ! C1	! 0250B ! 0 ! D ! C1 ! 20B ! ! (10)	! 0250B ! 10 ! 0 ! D ! 0 ! C1 ! 20B ! C2 ! ! (10)! ! MCEL	! 0250B ! 1003B ! 0 ! D ! 0 ! 14B ! C1 ! 20B ! C2 ! 00B ! ! (10)! ! (00) ! MCEL - Map Co	! 0250B ! 1003B ! PP ! 0 ! D ! 0 ! 14B ! (! C1 ! 20B ! C2 ! 00B ! C3 ! ! (10)! ! (00) ! ! MCEL - Map Corrected ! RCEL - Retry Correct	! 0250B ! 1003B ! PP ! 17B ! 0 ! D ! 0 ! 14B ! 0 ! C1 ! 20B ! C2 ! 00B ! C3 ! 22B ! ! (10)! ! (00) ! ! (12) ! MCEL - Map Corrected Error ! RCEL - Retry Corrected Error	! 0250B ! 1003B ! PP ! 17B ! ! 0 ! D ! 0 ! 14B ! 0 ! MI ! C1 ! 20B ! C2 ! 00B ! C3 ! 22B ! C4 ! ! (10)! ! (00) ! ! (12) ! ! MCEL - Map Corrected Error Log (bi	! 0250B ! 1003B ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 14B ! 0 ! MID ! C1 ! 20B ! C2 ! 00B ! C3 ! 22B ! C4 ! 60B ! ! (10)! ! (00) ! ! (12) ! ! (30) ! MCEL - Map Corrected Error Log (bits 0 - 1) ! RCEL - Retry Corrected Error Log (bits 0 - 1)	! 0250B ! 1003B ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 14B ! 0 ! MID ! SEQ ! C1 ! 20B ! C2 ! 00B ! C3 ! 22B ! C4 ! 60B ! 0 ! ! (10)! ! (00) ! ! (12) ! ! (30) ! ! MCEL - Map Corrected Error Log (bits 0 - 59) ! RCEL - Retry Corrected Error Log (bits 0 - 59)

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	59	53	47	· -	35	29	23		11	0
Word 2	! 02	50B		003в	! PP	•	!	0		!
Word 3	! 0		! 0		!	0	! MID	!	SEQ	!
Word 4	!	+			•	0				!
Word 5	! C5 !	! 223B ! (93)	! C6	! 220B ! (90)	! C7 !	! 221B ! (91)	!!!	0		!
Word 6	!					0				!
Word 7	!					0				!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

59	53	47	41	35	29	23	11		0
•						!	0		!
! 01B	! D	! 0	! 04B	1	0	! MID	!	SEQ	!
!			•	•		•			!
!			Word 2	(bits	0 - 59)				+ !
!			Word 3	(bits	0 - 59)				!
! !			Word 4	(bits	0 - 59)				!
	! 02 ! 01B	! 0250B	! 0250B ! SYN	! 0250B ! SYMPTOM ! 01B! D ! 0 ! 04B ! Word 1 ! Word 2	! 0250B ! SYMPTOM ! PP ! 01B ! D ! O ! 04B ! ! Word 1 (bits ! Word 2 (bits ! Word 3 (bits	! 0250B ! SYMPTOM ! PP ! 17B ! 01B ! D ! O ! 04B ! O ! Word 1 (bits 0 - 59) ! Word 2 (bits 0 - 59) ! Word 3 (bits 0 - 59)	! O1B ! D ! O ! O4B ! O ! MID	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 01B ! D ! O ! 04B ! O ! MID ! ! Word 1 (bits 0 - 59) ! Word 2 (bits 0 - 59) ! Word 3 (bits 0 - 59)	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 01B! D ! 0 ! 04B ! 0 ! MID ! SEQ ! Word 1 (bits 0 - 59) ! Word 2 (bits 0 - 59) ! Word 3 (bits 0 - 59)

Continuation message 4.

				41		29	23		11	0
	! 02	50B	! SYM	PTOM	! PP	•	!	0		!
Word 3	! 01B	! D	! 0	! 14B	!	0	! M	ID .	! SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3 !	0	! W4 !	0	! 0	!
Word 5	!			•	•	0 - 59)			,	!
Word 6	!			Word 6	(bits	0 - 59)				!
Word 7	!				0					!

	59		47			29	23	11	0
	•		! SYM	! SYMPTOM		! 17B !		0	!
Word 3	! 01B	! D	! 0	! 10B	1	•	! MID	! SEQ	!
Word 4	!				0				!
Word 5	! W5	! 0	•	! 0	1		0 .		!
Word 6	!			T	0				!
Word 7	!				0				!
•	T								

Field	Location	Description
PP	35 - 30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1 C2 C3 C4 C5 C6 C7	59-56 47-44 35-32 23-20 59-56 47-44 35-32	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 -63). Dependent environment control (bits 60 - 63). Map corrected error log (bits 60 - 63). Retry corrected error log (bits 60 - 63). Control store error log (bits 60 - 63). Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59 – 56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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! MAINFRAME ! (MODEL 835)	! ! MSGID !	0250в	!
! CORRECTED PROCESSOR ERROR !	! ! SYMPTOM	1003В	: ! !

	•		• • •	41			23		11	0
Word 2	! 0	250B	·		! PP	! 17B	! 0			!
Word 3	! 0	! D	! 0	! 04B	!	0	! MID	!	SEQ	!
Word 4	!	EID - Element Identifier (bits 0 - 59)								
Word 5	!	SS - Status Summary (bits 0 - 59)								!
Word 6	!	OI - Options Installed (bits 0 - 59)								!
Word 7	!	DEC - Dependent Environment Control (bits 0 - 59)							!	

Continuation message 1.

	. 59	• •	47	. –	35		23		11	0
Word 2	! 02	50B	! 10	03B	! PP	! 17B	!	0	1	!
Word 3	! 0	! D	! 0	! 14B	1	0	! MID		! SEQ	!
Word 4	! C1	! 20B ! (10)	! C2	! 00B ! (00)	! C3	! 22B ! (12)	! C4 ! ! !	60B (30)	! 0 !	!
Word 5	!	•	•	•	•	•	r Log (b			!
Word 6	!		CCEL -	Cache	Correct	ed Erro	r Log (b:	its 0	- 59)	!
Word 7	!					0				!

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	59	53	47	41	35	29	23	1	1	0
Word 2		50B	! 100		! PP		!	0		!
Word 3	! 0	! D	! 0	! 10B	!	0	! MID	!	SEQ	!
Word 4	!	+				0				!
Word 5	!	! 220B ! (90)	! C6 !	! 222B ! (92)	!		0			!
Word 6	!	+				0) <u> </u>
Word 7	!	·				0				!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

	59	53	47	41	35	29	23	11		0
Word 2			! SYM		! PP		!	0		!
Word 3	! 01B	! D	! 0	! 04B	1	0	! MID	!	SEQ	!
Word 4	!			•	•	0 - 59)	•			!
Word 5	!			Word 2	(bits	0 - 59)				! !
Word 6	!	— 		Word 3	(bits	0 - 59)				!
Word 7	!			Word 4	(bits	0 - 59)				!

Continuation message 4.

	59	53	•		. –	35	29	23		11	0
Word 2	! 02	250E	3	! SYM	PTOM	! PP	•	!	0		!
Word 3	! 01B	!	D	! 0	! 14B	!	0	!	MID	! SEQ	!
Word _. 4	! W1	!	0	! W2	! 0	! W3 !	. 0	! W4	•	! 0	!
Word 5	!				•	•	s 0 – 59	•			!
Word 6	!				Word 6	(bits	s 0 – 59)			!
Word 7	!			,		0					!

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	59		47	· -			23	11	0
Word 2	! 0:	250B	! SYM	PTOM	! PP	! 17B	!	0	!
Word 3	! 01B	! D	! 0	! 10B	1	0	! MID	! SE(?!
Word 4	!				0				!
Word 5	! W5	! 0	•	! 0	1		0		!
Word 6	! .				0				!
Word 7	!				0				!

Field	Location	Description
PP	35 - 30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1 C2 C3 C4 C5 C6	59-56 47-44 35-32 23-20 59-56 47-44	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 -63). Dependent environment control (bits 60 - 63). Retry corrected error log (bits 60 - 63). Cache corrected error log (bits 60 - 63).
Wl	59 – 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59 - 56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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!	MAINFRAME (MODEL 990)	! ! MSGID !	0250в	! ! !
!!!!!	REPAIRABLE/RETRYABLE ERROR	! ! SYMPTOM ! !	1005B, 1006B, 1007B 1034B, 1035B	! ! ! !

	59		• •	41			-5	11		0	
Word 2		250B	! SY	MPTOM	! PP	! 17B	!	0		!	
Word 3	! 0	! D	! 0	! 04B	1	0	! MID	!	SEQ	!	
Word 4	!	EID - Element identifier (bits 0 - 59)									
Word 5	! !		ss –	Status S	Summary	(bits	0 - 59)			!	
·Word 6	!	OI - Options Installed (bits 0 - 59)									
Word 7	! !	DEC - Dependent Environment Control (bits 0 - 59)								!	

Continuation message 1.

	59	53	47	41	35	29	23		11	0
Word 2	! 02				PP			0		!
Word 3	! 0	! D	! 0	! 14B	! ()	! MID		! SEQ	!
Word 4	! C1	! 20B ! (10)	! C2 !	! 00B ! (00)	C3	22B (12)	C4 !	60B (30)	! 0 !	!
Word 5	! !	=	•	•	•		ıs O (bi		•	!
Word 6	!		PFS1 -	Process	sor Faul	t Stati	ıs l (bi	ts 0 -	59)	!
Word 7	!		PFS2 -	Proces	sor Faul	t Stati	ıs 2 (bi	ts 0 -	59)	!

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				· -		29	- -	11	0
Word 2	! 02	50B	! SYM	IPTOM	! PP	•	! 0	,	!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	! SEQ	!
Word 4	!	•	PFS3 -	Proces	sor Fau	ılt Stat	us 3 (bits 0 -	- 59)	!
	! C5	! 200B ! (80)	! C6	! 201B ! (81)	! C7	! 202B ! (82)	! C8 ! 203B ! ! (83)	! 0	!
Word 6	!	-			-	•	us 4 (bits 0 -	- 59)	!
Word 7	 ! +		PFS5 -	Proces	sor Fau	ılt Stat	us 5 (bits 0 -	- 59)	!

Continuation message 3.

	59 53	47 41	35 29	23	11 0
Word 2		! SYMPTOM	! PP ! 17B	! 0	!
Word 3	! 0 ! D	! 0 ! 14B	! 0	! MID	! SEQ !
Word 4	•	PFS6 - Proces	•	us 6 (bits 0 -	59) !
Word 5				us 7 (bits 0 -	·
Word 6	! C9 ! 204B	! C10 ! 205B	•	! C12 ! 207B ! ! (87)	0 !
Word 7	!	PFS8 - Proces	sor Fault Stati	us 8 (bits 0 -	59) !

Continuation message 4.

					35 +				11	0
Word 2	! 025	0в	SYMI	PTOM	PP	! 17B	!	0	1	!
Word 3	1 0 1	D	! 0	! 14B	! ()	! MII		SEQ	!
Word 4	!	PFS9 - Processor Fault Status 9 (bits 0 - 59)								
Word 5	!	PFS10 - Processor Fault Status 10 (bits 0 - 59)								
Word 6	!						tus 11 (- 59)	!
Word 7	! C13	! 210B ! (88)	C14	211B (89)	! C15	212B ! (8A)	! C16 !	213B (8B)	. 0	!

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59	53	47	41	35	29	23	11	0
						! 0		!
! 0	! D	! 0	! 14B	1	0	! MID	! SEQ	!
!	7	•	•	•	ult Sta	tus 12 (bits () – 59)	!
!		PFS13	- Proce	ssor Fa	ult Sta	tus 13 (bits () - 59)	!
!		PFS14	- Proce	ssor Fa	ult Sta	tus 14 (bits () – 59)	!
! !		PFS15	- Proce	ssor Fa	ult Sta	tus 15 (bits () - 59)	!
	! 02	! 0250B	! 0250B ! SYN ! 0 ! D ! 0 ! PFS12 ! PFS13 ! PFS14	! 0250B ! SYMPTOM ! 0 ! D ! 0 ! 14B ! PFS12 - Proce ! PFS13 - Proce ! PFS14 - Proce	! 0250B ! SYMPTOM ! PP ! 0 ! D ! 0 ! 14B ! ! PFS12 - Processor Fa ! PFS13 - Processor Fa ! PFS14 - Processor Fa	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! D ! 0 ! 14B ! 0 ! PFS12 - Processor Fault Sta ! PFS13 - Processor Fault Sta ! PFS14 - Processor Fault Sta	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 14B ! 0 ! MID ! PFS12 - Processor Fault Status 12 (bits 0 ! PFS13 - Processor Fault Status 13 (bits 0 ! PFS14 - Processor Fault Status 14 (bits 0	! 0250B ! SYMPTOM ! PP ! 17B ! 0 ! 0 ! D ! 0 ! 14B ! 0 ! MID ! SEQ

Continuation message 6.

	59			41					11	0
Word 2	! 025	50B	! SYM	PTOM	! PP	! 17B	!	0	1	!
	! 0 !	D	! 0	! 14B	!	0	! MI	D	! SEQ	!
Word 4	-	214B (8C)	! C18	! 215B ! (8D)	! C19	! 216B ! (8E)	! C20 !	! 217B ! (8F)	! 0 !	!
Word 5	! M1		!	м2	. !	TC		!	ADDR	!
Word 6	! Contents of Failing Address (bits 0 - 59)							!		
Word 7	!			reload		Address	(bits	0 - 59) 	!

Continuation message 7.

	59	53	47		35		23		11	0
Word 2	! 025			PTOM	! PP	! 17B	!	0		!
Word 3	! 0 !	D	! 0	! 10B	1	0	! MI	D !	SEQ	!
Word 4	! Hourly P Counter ! Retry P Counter (bits 0-27) !) !	
Word 5	! Program Address Register !							!		
Word 6	! F1	! 00	! F2	! 0	! F3	! 0	! F4	1	0	!
Word 7	!		7			0				!

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ese messages are issued for DFT revision levels greater than 3. atinuation message 8.

			• •	41				11		0
√ord 2	! 0	250B	! SY	MPTOM	! PP	! 17B	!	0		!
Vord 3	! 01B	! D	! 0	! 04B	!	0	! MID	!	SEQ	!
√ord 4	!			•	•	0 - 59)	T			!
Nord 5	!			Word 2	(bits	0 - 59)				!
Nord 6	!			Word 3	(bits	0 - 59)				!
Word 7	!			Word 4	(bits	0 - 59)				!
	T									

ntinuation message 9.

	59		- •	41		29		·	11	0
Word 2	! 02	50в	! SYM	PTOM	! PP	! 17B		0	1	!
Word 3	! 01B	! D	! 0	! 14B	!	0	! MID		! SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3 !	0	•)	! 0	!
Word 5	!					0 - 59)				!
Word 6	Word 6 (bits 0 - 59)								!	
Word 7	!				0					!
_	T									

ntinuation message 10.

++++++++	
Word 2 ! 0250B ! SYMPTOM ! PP ! 17B !	0 !
Word 3 ! 01B ! D ! 0 ! 10B ! 0 ! MID	! SEQ !
Word 4 ! 0	!
Word 5 ! W5 ! O ! W6 ! O ! O	!
Word 6 ! 0	!
Word 7 ! 0	!

Field	Location	Description
SYMPTOM	47-36	Symptom code. 1005B Retry in progress error. 1006B Repaired error (Control memory has been successfully reloaded). 1007B Unrepaired error (Control memory has not been successfully reloaded). 1034B Retry exhausted. 1035B Hourly retry threshold exceeded.
PP	35 - 30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20	59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20 59-56 47-44 35-32 23-20	Element identifier (bits 60 - 63). Status summary (bits 60 - 63). Options installed (bits 60 - 63). Dependent environment control (bits 60 - 63). Processor fault status 0 (bits 60 - 63). Processor fault status 1 (bits 60 - 63). Processor fault status 2 (bits 60 - 63). Processor fault status 3 (bits 60 - 63). Processor fault status 4 (bits 60 - 63). Processor fault status 5 (bits 60 - 63). Processor fault status 6 (bits 60 - 63). Processor fault status 7 (bits 60 - 63). Processor fault status 8 (bits 60 - 63). Processor fault status 9 (bits 60 - 63). Processor fault status 10 (bits 60 - 63). Processor fault status 11 (bits 60 - 63). Processor fault status 12 (bits 60 - 63). Processor fault status 13 (bits 60 - 63). Processor fault status 14 (bits 60 - 63). Processor fault status 15 (bits 60 - 63).
W1	59 – 56	Word 1 (bits 60 - 63). (Data from DFT Supportive
W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive
W3	35-32	Status Buffer.) Word 3 (bits 60 - 63). (Data from DFT Supportive
W4	23-20	Status Buffer.) Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59 - 56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

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<u>Field</u>	Location	Description
Ml	59-48	Bit mask to identify control memory.
M2	47-32	Bit mask reply from 2AP (reload was successful if bit set in Ml is clear).
TC	31-16	Type code of control memory with error.
ADDR	15-0	Failing address (if known). If unknown, ADDR = FFFF (16). In this case, the contents will be 0.
Fl	59-56	Contents of failing address (bits $60 - 63$).
F2	47-44	Contents of failing address after reload (bits 60 - 63).
F3	35-32	Retry P Counter (bits 28 - 31).
F4	23-20	Program Address register (bits 60 - 63).

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!	MAINFRAME (180 CLASS MODELS)	! ! !	MSGID	0250В	-! ! !
!	PROCESSOR DETECTED MALFUNCTION	! ! !	SYMPTOM	1011B	!

This message is issued by IAJ whenever a mode 20 error is detected for a job.

The first message has the following form.

	59	47 41	35	29	23	11	0
Word 2	! 0250B	! 1011B	! PP	! 17B	!	0	!
Word 3	! 0	! 0	!	0	! MID	! () !
Word 4	! Contents of RA + 0						!
Word 5	! Co	ntents of 1	ocation ((P)			!

<u>Field</u>	Location	Description
PP	35 - 30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (180 CLASS MODELS)	!!!	MSGID	0250B !
!	PROCESSOR STATE ERROR	! ! !	SYMPTOM	1012B !

This message is issued by IAJ whenever a mode 67 error is detected for a job.

The first message has the following form.

	59	47	41		35	29	23		11	0
Word 2	! 0250B	! 10	1 2B		. PP	17B	!	0		!
Word 3	! 0		!	0	! ()	! MID	!	0	!
Word 4	Contents of RA + 0							!		
Word 5	! Co	ntents	of	loca	ation (H	?)				!
Word 5	! Co	ntents	of	loca	ation (H	?)				

<u>Field</u>	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	10-0	DFT sequence number.

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!	MAINFRAME (180 CLASS MODELS)	MSGID	0250B
!!!!	ENVIRONMENT WARNING	SYMPTOM	3401B

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The EID registers for elements with long warning status set are present in this message. The field is zero for elements without a long warning status. Bits 0-3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

The first message has the following form.

	59 5	53	47	41		29	23		11	0
Word 2			3 40		PP	17B		0		!
Word 3	! 0 !	D	! 0 !	04B)	MID		! SEQ	!
Word 4	•	H1	!		!	н3	!		Н4	!
Word 5	!]	Element	: 1 EID	(bits	4 - 63)				!
Word 6	!	Element 2 EID (bits 4 - 63) !								!
Word 7	!]	Element	3 EID	(bits	4 - 63)				!
										+

Continuation message 1.

		47 41			11 0				
Word 2	! 0250в	! 3401B	! PP ! 17B	! 0	!				
	! 0 ! D	! 0 ! 14B	! 0	! MID	! SEQ !				
Word 4	!	Element 4 EID (bits 4 - 63)							
Word 5	! н5	! H6	! H7	!	н8 !				
Word 6	!	Element 5 EID (bits 4 - 63)							
Word 7	!	Element 6 EID	(bits 4 - 63)		!				

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	59	53	47	41	• •	29	23		11	0
Word 2	•		! 34		PP	17B	!	0		!
Word 3	! 0	! D	! 0	! 10B	! ()	! MID	!	SEQ	!
Word 4	!	Element 7 EID (bits 4 - 63)								!
Word 5	!	Element 8 EID (bits 4 - 63)								!
Word 6	!			0						!
Word 7	!			.0						!

These messages are issued for DFT revised levels greater than 3.

Continuation message 3.

					35 +]	11	0
Word 2	! 02	250B	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 04B	•)	! MID	!	SEQ	!
Word 4	!			•	(bits		<u> </u>			!
Word 5	!			Word 2	(bits (– 59)	·		·	!
Word 6	!			Word 3	(bits (– 59)				!
Word 7	!				0					!
	+									+

Continuation message 4.

		47 41	35 29	23	11 0
	. 0250B	! SYMPTOM	. ,	! 0	!
Word 3	! 01B ! D	! 0 ! 10B	! 0	! MID	! SEQ !
Word 4	! W1 ! 0	! W2 ! O	•	! 0	!
Word 5	!	· · · · · · · · · · · · · · · · · · ·	0		!
Word 6	!		0		!
Word 7	!		0		!

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<u>Field</u>	Location	Description
PP	35 – 30	PP in which IMB is running.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53 – 48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
Wl	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

• 5-172 60459940 E

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (MODELS 810/830)	! ! MSGID !	0250B	! ! !
!!!!	LONG POWER WARNING	! ! SYMPTOM	3402B	! ! !

This message is issued for models 810/830 with the battery backup option. The EID registers for those elements with long warning status set are present in this message. The field is zero for elements without a long warning status. Bits 0-3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Hardware Descriptor Table (HDT).

The first message has the following form.

		53		-	35		23	11	0
	! 02	250B	! 34	02B	! PP	17B	! !	0	!
	! 0	! D	! 0	! 04B	! (·) · !		! SE	•
Word 4	!	H1	•	Н2	!	н3	!	H4	!
Word 5	!		Elemen	t 1 EID	(bits 4	- 63)			!
Word 6	!		Elemen	t 2 EID	(bits 4	- 63)			!
Word 7	!		Elemen	t 3 EID	(bits 4	- 63)		- بن <u>ن</u> بيك من من من من من من من	!
	+								·+

Continuation message 1.

	59 53	47 41	35 29	23	11 0
		! 3402B		! 0	!
Word 3	! 0 ! D	! 0 ! 14B	! 0	! MID	! SEQ !
Word 4	!	Element 4 EII	(bits 4 - 63)	•	!
Word 5	! H5	! Н6	! н7	!	Н8 !
Word 6	!	Element 5 EII) (bits 4 - 63))	!
Word 7	!	Element 6 EII) (bits 4 - 63)		!

60459940 E 5−173 •

	59 53	47 41	35 29	23	11 0
Word 2			PP ! 17B	! 0	!
Word 3	! 0 ! D	! 0 ! 10B	. 0	! MID	! SEQ !
Word 4	•	•	(bits 4 - 63)	1	!
Word 5	!	Element 8 EID	(bits 4 - 63)		!
Word 6	!		0		!
Word 7	!		0		!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

	59	53	47	41	35	29	23		11	0
	! 02		! SYM		! PP		!	0		!
Word 3	! 01B	! D	! 0	! 04B	-)	! MID	!	SEQ	!
Word 4	! !			•	(bits (*				!
Word 5	!			Word 2	(bits	- 59)				!
Word 6	! !			Word 3	(bits (– 59)				!
Word 7	!				0					!
•	T									

Continuation message 4.

	59 53	47 41	35	29	23	11 0
		! SYMPTOM	! PP !		! 0	!
Word 3	! 01B ! D	! 0 ! 10B	! 0		! MID	! SEQ !
	! W1 ! O	•	! W3 !	0	! 0	!
Word 5	!		0		,	!
Word 6	!	·	0			!
Word 7	!		0			!

5-174

<u>Field</u>	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53 – 48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5−175 •

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (180 CLASS MODELS)	!	MSGID	0250В	
! ! !	SHORT POWER WARNING	! ! !	SYMPTOM	3403в	:

The EID registers for those elements with short warning status set are present in this message. The field is zero for elements without a short warning status. Bits 0-3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

The first message has the following form.

-	59	53	47	41	35	29	23	11	0
	! 0:		! 34		! PP		!	0	!
Word 3	! 0	! D	! 0	! 04B	1 (0	! MID	! !	SEQ !
Word 4	!	H1	-	Н2	!	Н3	!	H4	!
Word 5	!		Elemen	t 1 EID	(bits	4 - 63)			!
Word 6	!		Elemen	t 2 EID	(bits	4 - 63)			!
Word 7	!		Elemen	t 3 EID	(bits	4 - 63)			!
	T								

Continuation message 1.

		47 41			11 0	
	! 0250В	! 3403B	! PP ! 17B	! 0	!	
	! 0 ! D	! O ! 14B	! 0	! MID	! SEQ !	
Word 4	!	Element 4 EID	(bits 4 - 63)		!	
Word 5	! н5	! H6	! н7	!	Н8 !	
Word 6	Element 5 EID (bits 4 - 63)					
Word 7	!	Element 6 EID	(bits 4 - 63)		!	

• 5-176 60459940 E

	59 53		41	35	29	23	11	0
	! 0250в	•	03в	! PP		! 0) 	!
Word 3	! 0 ! 1	D ! 0	! 10B	!		! MID	! SEQ	!
Word 4	!	Elemen	t 7 EID	•				!
Word 5	!	Elemen	t 8 EID	(bits	4 - 63)			!
Word 6	!			()			!
Word 7	!			()			!
	+							+

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

		53			35		23	1	11	0
Word 2	! 0	250B	! SYM	IPTOM	! PP	! 17B	!	0 ,		!
Word 3	! 01B	! D	! 0	! 04B	•)	! MID	!	SEQ	!
Word 4	!			•	(bits	•				!
Word 5	!			Word 2	(bits	0 - 59)	·			!
Word 6	!			Word 3	(bits	0 - 59)				!
Word 7	!				0					!
	+									+

.Continuation message 4.

	59		47	41	35	29	23	1	1	0
	! 02	50B	! SYM		! PP		!	0		!
Word 3	! 01B	! D	. ! 0	! 10B	1	0	! MID	!	SEQ	!
	! W1	! 0	! W2	! 0	! W3	! 0	!	0		!
Word 5	!	T			0		- -			!
Word 6	!				0					!
Word 7	! !				0					!

60459940 E 5-177 ●

<u>Field</u>	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53 – 48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

• 5-178 60459940 E

!	MAINFRAME (180 CLASS MODELS)	!!!	MSGID	0250B
!!!	ENVIRONMENT WARNING CLEAR	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	SYMPTOM	3404B !

This message is issued when all warnings clear (and the original warning is an environmental warning). The EID registers of all elements that receive long warning status during the interval are present. The field is zero for elements that do not receive long warning status. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

The first message has the following form.

		53	_	41	35		29	23	1	. 1	0
	. 02		! 340	• . –	! PP	-		! !	0		!
Word 3	! 0	! D	! 0	! 04B	!	0	!	MID	!	SEQ	!
Word 4	!	H1	•	н2	!		н3	!	•	[4	!
Word 5	!	Element 1 EID					- 63)				!
Word 6	!	t 2 EID	(bits	s 4	- 63)				!		
Word 7	!		Elemen	3 EID	(bits	s 4	- 63)				!
•	T										

Continuation message 1.

	59 53	47 41				11	0
Word 2		! 3404B	! PP !	17B	0		!
Word 3	! 0 ! D	! 0 ! 14B	! 0	!	! MID	! SEQ	!
Word 4	!	Element 4 EID	•				!
Word 5	! н5	! н6	!	н7	!	н8	!
Word 6	<u> </u>	Element 5 EID	(bits 4	- 63)			!
Word 7	! !	Element 6 EID	(bits 4	- 63)			!

60459940 E 5-179 ●

	59	53	47	41	35	29	23	11	0
Word 2		_	! 340		. PP		!	0	!
Word 3	! 0	D	! 0	! 10B	! ()	! MID	! SE	EQ !
Word 4	!		•	•	(bits				!
Word 5	!		Elemen	8 EID	(bits	4 - 63)			!
Word 6	!				()			!
Word 7	!				(!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

	59	53	47	41	35	29	23		11	0
Word 2	-		! SYM		PP		!	0		!
Word 3	! 01B	! D	! 0	! 04B	! ()	! MID	!	SEQ	!
Word 4	!			•	(bits	•	T			!
Word 5	!			Word 2	(bits (– 59)	**			!
Word 6	!			Word 3	(bits (59)	د، وب هم ۱۳۰۰ هه ۱۳۰ هم هم هم هم شد			!
Word 7	!		*** *** *** *** *** ***		0	، خد جي چه کنا که خه ه				!
	+									+

Continuation message 4.

	_	59	53	47	41	35	29	23		11	0
Word	_	! 02		! SYM		! PP		!	0		!
Word	3	! 01B	! D	! 0	! 10B	!	0	! MID	!	SEQ	!
Word	4	! W1	! 0	! W2	! 0	! W3	! 0	!	0	·	!
. Word		! !	7			0	7				!
Word	6	! !				0					!
Word	7	! !				0					!

5-180

<u>Field</u>	Location	Description
PP	35 – 30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
Wl	59 – 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5-181 ●

!	MAINFRAME (MODELS 810/830)	! ! !	MSGID	0250B	!!!
!!!!	LONG POWER WARNING CLEAR	! ! !	SYMPTOM	3405B	! !

This message is issued for models 810/830 with the battery backup option. This message is issued when all warnings clear (and the original warning is a long power warning). The EID registers of all elements that receive long warning status during the interval are present. The field is zero for elements that do not receive long warning status. The entries in this message are in one-to-one correspondence with the entries in the Maintrame Reconfiguraton Table (MRT).

The first message has the following form.

		53	47	41	35	29	23	11	0
	. 02	50B	! 340		! PP		!	0	!
Word 3	! 0	! D	1 0	! 04B	! ()	! MID		SEQ!
Word 4	!	H1	•	Н2	!	н3	!	Н4	!
Word 5	!		Elemen	t 1 EID	(bits	- 63)			!
Word 6	!		Elemen	t 2 EID	(bits	- 63)			!
Word 7	!		Elemen	t 3 EID	(bits	- 63)			!
	T								

Continuation message 1.

	59	53	47	41	35	2	.9	23		11	0
Word 2	. 02		! 34	05B	. PP	-	17B !		0		!
Word 3	! 0	! D	! 0	! 14B	!	0	!	MID		! SEQ	!
Word 4	!	•	•	t 4 EID	•	s 4	- 63)				!
Word 5	!	н5	!	Н6	!		Н7	!		Н8	!
Word 6	! !		Elemen	t 5 EID	(bit	s 4	- 63)				!
Word 7	 ! 	Element 6 EID (bits 4 - 63)						!			

● 5-182 60459940 E

	59	53	47	41		29	23	1	. 1	0
Word 2			! 340		PP	17B	 	0		!
Word 3	! 0	! D	! 0	10B	. ()	! MID	!	SEQ	!
Word 4	!		•		(bits					!
Word 5	!		Element	8 EID	(bits 4	- 63)				!
Word 6	!				· ()				!
Word 7	! !				()				!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

		53	. • •	41	35	29	23	1	11	0
Word 2	! 02	250B	! SYN	IPTOM			!	0		!
Word 3	! 01B	! D	! 0	•	!	0	! MID	!	SEQ	!
Word 4	!			•	(bits		,	 -		!
Word 5	!			Word 2	(bits	0 - 59)				!
Word 6	!			Word 3	(bits	0 - 59)				!
Word 7	!				0					!
										+

Continuation message 4.

	59 53	47 41	35	29	23	11	0
		! SYMPTOM	! PP		!	0	!
Word 3	! 01B ! D	! 0 ! 10B	! (Ď	! MID	! SEQ	!
Word 4	! W1 ! O	•	! W3	! 0	1	0	!
Word 5	!		0				!
Word 6	!		0				!
Word 7	!		0				!

60459940 E 5-183 ●

<u>Field</u>	Location	Description
PP	35 - 30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53 - 48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47 - 44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

• 5-184 60459940 E

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	MAINFRAME (180 CLASS MODELS)	! ! MSGID !	0250B !
!!!!	SHORT POWER WARNING CLEAR	SYMPTOM	3406B !

This message is issued when all warnings clear (and the original warning is a short power warning). The EID registers of all elements that receive short warning status during the interval are present. The field is zero for elements that do not receive short warning status. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

The first message has the following form.

	59	53	47	41	35	29	23	11	0	L
Word 2	•		! 34	406B	! PP		!	0		- - -
Word 3	! 0	! D	! 0	! 04B	1	0	! MID	!	SEQ !	- - -
Word 4	!	Н1	!	Н2	!	Н3	!	H4	!	
Word 5	!		Elemen	nt 1 EID	(bits	4 - 63)				_
Word 6	!		Elemen	nt 2 EID	(bits	4 - 63)			!	
Word 7	!		Elemen	nt 3 EID	(bits	4 - 63)			!	
	7									-

Continuation message 1.

	59 53	47 41	35 29	23	11 0
			! PP ! 17B	! 0	!
Word 3	! 0 ! D	! 0 ! 14B	•	! MID	! SEQ !
Word 4	!	•	(bits 4 - 63)		!
Word 5	•	! н6	! H7	!	Н8 !
Word 6	!	Element 5 EID	(bits 4 - 63)		!
Word 7	!	Element 6 EID	(bits 4 - 63)		!

60459940 E 5-185 ●

	59 53	47 41	35 29	23	11 0
	! 0250B	! 3406B	! PP ! 17B	! 0	. !
	! 0 ! D	! 0 ! 10B	! 0	! MID	! SEQ !
Word 4	!	Element 7 EID	(bits 4 - 63)		!
Word 5	!	Element 8 EID	(bits 4 - 63)		!
Word 6	!		0		!
Word 7	!		0		!

These messages are issued for DFT revision levels greater than 3.

Continuation message 3.

	59 53	47 41	35 2		3	11 0
	! 0250B	! SYMPTOM	! PP !	17B !	0	!
Word 3	! 01B ! D	! 0 ! 04B	! 0	1	MID !	SEQ !
Word 4	!	Word	l (bits 0	•		!
Word 5	!	Word 2	2 (bits 0	- 59)		!
Word 6	!	Word 3	3 (bits 0	- 59)		!
Word 7	!		0			!

Continuation message 4.

	59				35		23	1	11	0
Word 2	! 02	250B	! SYN	IPTOM	! PP	! 17B	!	0		!
Word 3	! 01B	!- D	! 0	! 10B	!	0	! MID	!	SEQ	!
Word 4	! W1	! 0	! W2	! 0	! W3	! 0	!	0		!
Word 5	!				0					!
Word 6	!				0					!
Word 7	!				0					!

• 5-186 60459940 E

<u>Field</u>	Location	Description
PP	35 - 30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53 – 48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
Wl	59 – 56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5-187 ●

!	MAINFRAME (180 CLASS MODELS)	!!!	MSGID	0250B !
!!!!	MAINFRAME ELEMENT COUNTER BUFFER	! ! !	SYMPTOM	3407B !

This message is issued at each top-of-hour. The entries in this message are in one-to-one correspondence with the entries in the Hardware Descriptor Table (HDT).

The first message has the following form.

	59	53	47	41	35	2	9	23	15	11	0
Word 2	! 02	50B	! 3	407B	! PP	! :	17B	!	0	·	!
Word 3	! 0	! D	! 0	! 04B	!	0		MID	L	! SEQ	!
Word 4	! CO	DE	!	UNLOG		ļ	CORI	R	!	UNCOR	!
Word 5	! CO	DE	!	UNLOG		! !	CORI	R	!	UNCOR	!
Word 6	! CO	DE	!	UNLOG		! !	COR	R	! !	UNCOR	!
Word 7	! CO	DE	!	UNLOG		 	COR	R	!	UNCOR	!
	1		_,								

Continuation message 1.

	59	53	47	41	35	29	23	15	11	0
Word 2	! 02	50В	! 3	407В	! PP	! 17B	!	0	1	!
Word 3	! 0	! D	! 0	! 14B	!	0	! MID	·	! SEQ	!
Word 4	! CO	DE	!	UNLOG	!	COR	R	!	UNCOR	!
Word 5	! CO	DE	!	UNLOG	!	CORI	R	!	UNCOR	!
Word 6	! CO	DE	!	UNLOG	!	CORI	R	! !	UNCOR	!
Word 7	! CO	DE	!	UNLOG	!	CORI	R	 	UNCOR	!
		-						•		

5-188 60459940 E

	59	53	47	41	35	29	23	15	11	0
Word 2	! 02	50B	! 3	407B	! PP	! 17B	!	0		!
Word 3	! 0	! D	! 0	! 10B	!	0	! MII)	! SEQ	!
Word 4	! CO	DE	!	UNLOG	!	COR	R	!	UNCOR	!
Word 5	! CO	DE	!	UNLOG	!	COR	lR	!	UNCOR	!
Word 6	!					0				!
Word 7	! ! +					0				!

Continuation message 3.

				41					11	0
	! 02	250в	! SYM	PTOM	! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 04B	! (! MID	!	SEQ	!
Word 4	!			•	(bits (•				!
Word 5	!			Word 2	(bits (– 59)				!
Word 6	!			Word 3	(bits (– 59)				!
Word 7	!				0					!
	T									

Continuation message 4.

	59 53	47 41	35 29	23	11 0
Word 2	! 0250B	! SYMPTOM	! PP ! 17B	! 0	!
	! 01B ! D	! O ! 10B	! 0	! MID	! SEQ !
	! W1 ! O			! () !
Word 5	!		0		!
Word 6	!		0		!
Word 7	!		0		!

60459940 E 5-189 ●

Field	Location	Description
PP	35 – 30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEG	11-0	DFT sequence numbers.
CODE	59 - 48	Element identification code.
		This is the CTI identifier code (IOU= 0, memory =1, processor = 2).
UNLOG	47-32	The unlogged error counter for the element.
CORR	31-16	The corrected error counter for the element.
UNCOR	15-0	The uncorrected error counter for the element.
Wl	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35 - 32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

• 5-190 60459940 E

!	MAINFRAME (180 CLASS MODELS)	! ! MSGID !	0250B !
!	SECDED ID TABLE	SYMPTOM	3410B !

This message is issued at each top-of-hour. There is one entry for each entry present in the SECDED ID Table. If no SECDED errors occurred in the hour, this message will not be issued.

The first message has the following form.

	59	53	47	41	35	29	23 ·	15	11	0
Word 2	! 02	250в	! 34	07в	! PP	! 17B	!	0		!
Word 3	! 0	! D	! 0	! 04B*	!	0	! MID		! SEQ	!
Word 4	! CC	DUNT	!		!	! SYNDROME				
Word 5	! CC	UNT	!		ADDRESS	!	SYNDROME	!		
Word 6	! CC	UNT	!		ADDRESS	!	!			
Word 7	! CC	OUNT	!		ADDRESS	!	SYNDROME	!		
	T		+							

Continuation message, if necessary.

	59	53	47	41	35	29	23	15	11	0
Word 2	! 02	50В	! 34	+07В	! PP	! 17B	!	0	. t. :	!
Word 3	! 0	! D	! 0	! 14B*	! M	D	! MID	,	! SEQ	!
Word 4	! CO	UNT	!		!	SYNDROME				
Word 5	! CO	UNT	!		ADDRESS	!	! SYNDROME !			
Word 6	! CO	UNT	!		! SYNDROME		!			
Word 7	! CO	UNT	!		!	SYNDROME	!			
	T									

60459940 E 5-191 ●

^{*}This field is 10B if it is the last message.

Continuation message, if necessary.

	59	53	47	41	35	29	23	15	11	0		
Word 2	! 02	.50B	! 3	410B	! PP	! 17B	!	! 0				
Word 3	! 0	! D	! 0	! 10B	! 1	MD	! MII)	! SEQ	!		
Word 4	! CC	UNT	!	ADDRESS ! SYNDROME								
Word 5	! CC	UNT	!	ADDRESS ! SYNDROME								
Word 6	!	0										
Word 7	! 0 !									!		

These messages are issued for DFT revision levels greater than 3.

Continuation message.

	59	53	47		35		23		11	0
Word 2	! 025			PTOM	! PP :	! 17B	!	0		!
Word 3	! 01B !	D	! 0	! 04B	! ()	! MID	!	SEQ	!
Word 4	!			•	(bits	•				!
Word 5	!			Word 2	(bits (59)			- # at at at # at at a	!
Word 6	! Word 3 (bits 0 - 59)					!				
Word 7	!				0					!

Continuation message.

	59	53	47	41	35	29	23	11		0
	! 02.		! SYN		! PP	! 17B	!	0		!
Word 3	! 01B	! D	! 0	! 10B	!	0	! MID	!	SEQ	!
	! W1	! 0	! W2	! 0	! W3	• •	!	0		!
Word 5	!	 			0	+				!
Word 6	!				0					!
Word 7	!				0					!

Field	Location	Description
PP	35-30	PP that detected the error.
D	53 – 48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
MS	23-0	Memory size (bits $0-23$ of the options installed register).
MD	35 - 24	Memory model number.
COUNT	59 – 48	Number of errors for this address during the past hour.
ADDRESS	47-16	Central memory address.
SYNDROME	15-0	Syndrome code.
Wl	59 - 56	Word 1 (bits 60 - 63). (Data from DFT Supportive
W2	47-44	Status Buffer.) Word 2 (bits 60 - 63). (Data from DFT Supportive
W3	35 - 32	Status Buffer.) Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

60459940 E 5-193 ●

! LOOSELY COUPLED NETWORKS !	! ! MSGID !	0300В	! !
! LOCAL NAD ERROR LOG !	! ! SYMPTON !	1 0100B	! !

	59	47	35	23		11	0
Word 2	! ! 0300B !	! ! 0100B !	! ! !	,	0		!!
Word 3	! ! !	0		! ! !	MID	! ! !	HUI!
Word 4	! ! ! !	NAC	ERROR LOG				! ! !
Word 60	: ! !						! !

<u>Field</u>	Word	Location	Description
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
NAD ERROR LOG	4 - 9 10	59 - 0 59 - 36	Device status table of local NAD (24 16-bit words).
	10 11 - 59 60	35-0 59-0 59-12	21 Local NAD error log entries. Each entry consists of 9 16-bit words.

See the 380--170 Network Access Device Hardware Reference Manual for the format of the NAD error $\log \raisebox{-0.95ex}{\raisebox{-0.95ex}{$ \text{NAD}$}}$

5-194 60459940 E

! LOOSELY COUPLED NETWORKS	! ! MSGID !	0300В	!
! LOCAL NAD CONNECTION ERROR !	! ! SYMPTOM !	2100В	! ! !

	59	47	35	29	23	15	11		0
Word 2	! ! 0300B !	! ! 2100B !	! ! !	! ! CH !	! . ! !				!!!
Word 3	! ! !				; Mİ ! Mİ	D	!!!	HUI	! ! !
Word 4	! ! !				! ! LNAD	! ! LT !	!!!		! ! !
Word 5	! ! !		NAD PC	ſ					! !
Word 11	! ! !								! ! !

<u>Field</u>	Word	Location	Description
СН	2	29-24	Channel number.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
LNAD	4	23-16	Local NAD address.
LT	4	15-12	Local trunk enables.
NAD PCT	5 - 10	59 - 0 59 - 52	Local NAD path control table (23 16-bit words).

See the 380--170 Network Access Device Hardware Reference Manual for the format of the NAD path control table.

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! ! LOOSELY COUPLED NETWORKS !	! ! MSGID !	0300B !
!	!	!
! LOCAL NAD ERROR LOG	! SYMPTOM	2101B, 2102B, 2110B-2117B,!
!	!	2120B-2122B, 2140B-2146B,!
!	!	2150B-2156B !

	59	47 43 41	35 29	23	11 0
Word 2	! ! 0300B ! !	! SYMPTOM!!	!!! ! PP!CH!!!	! ! ()
Word 3	EST	! ! ! RTY ! FLG ! !	! ! 0 !	! ! MID !	! ! HUI !
Word 4	FUNC	CSTAT	! HSTAT !	! ! ! ! ! ! ! ! ! ! !	0
Word 5	FFH1	FFH2	FFH3	! ! FFH4 !	! ! 0 !
Word 6	! ! DISTA:	! r ! TCIST	! FAT1 ! !	TCISTAT2	! ! 0 !
Word 7	CWHA	! LT ! !		0	

<u>Field</u>	Word	Location	Description
SYMPTOM	2	47-36	Symptom code.

Symptom code.

- 2101B NAD hardware fault.
- 2102B NAD microcode disaster halt.
- 2110B Function time out.
- 2111B Channel inactive after activate.
- 2112B Date timeout.
- 2113B Prime timeout.
- 2114B Flag timeout.
- 2115B Transfer error.
- 2116B Abnormal path status.
- 2117B Abnormal response code.
- 2120B Control message length error.
- 2121B Parameter length error.
- 2122B Transfer length error.

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<u>Field</u>	Word	Location	<u>Description</u> (Continued)
			214xB Local read error (convert mode). 215xB Local write error (convert mode). 0 Block error. 1 Host ABN error. 2 Block too large. 3 Data length error. 4 Block fragment with EOR/EOT. 5 Network ABN error. 6 Block not 60-bit multiple.
PP	2	35 - 30	PP number.
СН	2	29-24	Channel number.
EST	3	59 – 48	EST ordinal.
RTY	3	47 - 42	Retry count.
FLG	3	41-36 (37) (36)	Flag field. 0 DISTAT, TCISTAT1, TCISTAT2, CWHALT invalid. 1 DISTAT, TCISTAT1, TCISTAT2, CWHALT valid. 0 Recovered error. 1 Unrecovered error.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier. Set to 7777B if invalid.
FUNC	4	59 – 48	Initial function.
CSTAT	4	47 – 36	Initial controlware status.
HSTAT	4	35 - 24	Initial hardware status.
LNAD	4	23-16	Local NAD address.
FFH1	5	59 – 48	Flag function history.
FFH2	5	47 – 36	Flag function history.
FFH3	5	35-24	Flag function history.
FFH4	5	23-12	Flag function history.

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<u>Field</u>	Word	Location	<u>Description</u> (Continued)
DISTAT	6	59-44	Device interface status.
TCISTAT1	6	43-28	Trunk control interface status I.
TCISTAT2	6	27-12	Trunk control interface status II.
CWHALT	7	59-44	Controlware halt code.

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!	LOOSELY COUPLED NETWORKS	!!!	MSGID	0301B !	
!!!!!!	REMOTE NAD ERROR LOG	!!!	SYMPTOM	0100B !	

	59	47	35	23	11	0
Word 2	! ! 0301B !	! ! 100B ! ·	! ! !		0	! !
Word 3	! . ! !	0		! ! MI !	! D ! !	HUI!
Word 4	! !	NAD	ERROR LOC	}		! ! !
Word 60!	: 	. 				: ! !

<u>Field</u>	Word	Location	Description
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
NAD ERROR LOG	4 - 9 10	59 – 0 59 – 36	Device status table of remote NAD (24, 16-bit words).
	10 11 - 59 60	35-0 59-0 59-12	21 remote NAD error log entries. Each entry consists of 9, 16-bit words.

See the 380--170 Network Access Device Hardware Reference Manual for the format of the NAD error \log .

60459940 E

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!	LOOSELY COUPLED NETWORKS	!	MSGID	0301B	!
1	REMOTE NAD ERROR	!	SYMPTOM	2160B-2164B, 2170B-2176B	1

	59	47	41	35	29	23	·15	11	7	0
Word 2 !	. 0301B	! ! SYM! !	PTOM :	! ! 0 !	! ! CH :	! ! !	0			! ! !
Word 3	0	! ! RTY !	! ! FLG !	! ! 0 !	,	! ! M	ID !		HUI	! ! !
Word 4 !	FUNC	! ! CS:	rat :	! HSTA	T	! ! LNA !	! D!LTAI	!)! 0 !	! ! R !	! N ! !
Word 5 !	FFH1	! ! FFI !	H2	! ! FFH !	3	! ! F !	FH4	! ! !	0	! _! !

!	<u> </u>	<u> </u>	!
Field	Word	Location	Description
SYMPTOM	2	47–36	Symptom code. 2160B Header length error. 2161B Bad data block length. 2162B Bad PRU data block. 2163B Abnormal response. 2164B Connect in progress
			timeout. 2170B Block error. 2171B Host ABN error. 2172B Block too large. 2173B Data length error. 2174B Block fragment without EOR/EOT.
			2175B Network ABN error. 2176B Block not 60-bit multiple.
СН	2	29-24	Channel number.
RTY	3	47-42	Retry count.
FLG	3	41 - 36 (36)	Flag field. 0 Recovered error. 1 Unrecovered error.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier. Set to 7777B if invalid.
FUNC	4	59 – 48	Initial function code.

<u>Field</u>	Word	Location	<u>Description</u> (Continued)
CSTAT	4	47 – 36	Initial controlware status.
HSTAT	4	35-24	Initial hardware status.
LNAD	4	23-16	Local NAD address.
LTAD	4	15-12	Local trunk enables.
RN	4	7 - 0	Remote NAD address.
FFH1	5	59-48	Flag function history.
FFH2	5	47-36	Flag function history.
FFH3	5	35-24	Flag function history.
FFH4	5	23-12	Flag function history.

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! ! MAP III/MAP IV !	! ! MSGID !	0320В	!
! ! MAP ERRORS !	! ! SYMPTOM !	0101B - 0113B	!

The following BML message is issued by the MSSI driver MP3.

	59	47	35 29	23	11 5 0
Word 2	0320B	! SYMPTOM	! ! ! PP ! CH ! ! !	! ! 0 !	! ! ! ! ! 0 ! A/B ! ! !
Word 3	EST	0	! ! 0 !	! MID !	0 !
Word 4	STO	! ! ST1 !	! ! ST2 !	! ! ST3 ! !	! ST4 ! !
Word 5	ST5	! ! ST6 !	! ! ST7 !	! ! 0 !	0 ! !

Field	Location	Description
SYMPTOM	47 - 36	Symptom code. 0101B No response to function. 0102B Fatal MAP or system error. 0103B Checkword or channel parity error. 0104B Channel full after output. 0105B Timeout on channel input. 0106B Timeout on channel output. 0107B Channel full before output. 0110B Channel active before function. 0111B Function busy timeout. 0112B Channel empty before input. 0113B Parity error in one or more MAP memories or ECS/ESM.
PP	35 - 30	The PP from which the MAP driver, MP3, detected the error.
Ch	29 - 24	Number of the channel connected to the MAP.
A/B	5-0	The MAP access number. 1 Access A 2 Access B
EST	59 - 48	Est ordinal of the MAP.

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Field	Location	<u>Description</u> (Continued)
MID	23-12	Machine identifier of the mainframe connected to the MAP.
ST0	59-48	MAP hardware status word 0.
ST1	47 – 36	MAP hardware status word 1.
ST2	35-24	MAP hardware status word 2.
ST3	23-12	MAP hardware status word 3.
ST4	11-0	MAP hardware status word 4.
ST5	59 – 48	MAP hardware status word 5.
ST6	47 – 36	MAP hardware status word 6.
ST7	35-24	MAP hardware status word 7.

Refer to the MAP Field Maintenance Manual for detailed information on the MAP status definitions.

! ! SOFTWARE INITIALIZATION ! !	MSGID	0400B
! ! SYSTEM TITLE ! !	! ! SYMPTOM !	0100B

The following message is issued whenever a BML is created or recovered.

	59	47	35	0
Word 2	! 0400B	! ! 0100B !	! ! !	0 ! !
Word 3	! ! !	SYSTEM TITLE	LINE (Word 0)	! ! !
Word 4		SYSTEM TITLE	LINE (Word 1)	! ! !
Word 5		SYSTEM TITLE	LINE (Word 2)	! ! !
Word 6		SYSTEM TITLE	LINE (Word 3)	. ! ! !

!!!!!	SOFTWARE INITIALIZATION	!!!	MSGID	0400B	!
!!!!!!	SYSTEM VERSION	!!!	SYMPTOM	0101B	!

The following message is issued whenever a BML is created or recovered.

	59	47	35	0
Word 2	! ! 0400B !	! ! 0101B !	! ! !	0 !
Word 3	! !	SYSTEM VERSIC	N NAME (Word	0) ! !
Word 4	! ! !	SYSTEM VERSIO	N NAME (Word	! 1) !

!	HARDWARE INITIALIZATION	!!!	MSGID	0401B !	
!!!!!!!	PACK SERIAL NUMBER	!!!	SYMPTOM	0100B !	

The following message is issued for each mass storage pack whenever a ${\tt BML}$ is created or recovered.

	59	47	35	23	11 0
Word 2	! ! 0401B !	! ! 0100B	! ! DT :	! ! !	0
Word 3		PS	5 N	! ! EST !	! ! UN !

Field	Word	Location	Description
DT	2	35-24	Device mnemonic. Two display code characters.
PSN	3	59-24	Pack serial number in display code left justified, blank filled.
EST	3	23-12	EST ordinal in binary format.
UN	3	11-0	Unit number in binary format.

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! HARDWARE INITIALIZATION !	! ! MSGID !	0401B	-! ! -!
! CONTROLWARE REVISION	!	0101B, 0102B, 0103B	-!
! 7x5x CONTROLLERS, 834/836/	! SYMPTOM		!
! FSC/CCC ADAPTERS	!		!
!	!		!

The following message applies to $7 \, \mathrm{x} 5 \mathrm{x}$ controllers, 834/836 adapters, FSC adapters, and CCC adapters.

	59	47	35		23	0
Word 2	0401B	! ! SYMPTOM !	! ! !	СН	! ! !	! 0 ! !
Word 3			CW			! ! !
<u>Field</u>	Word	Location				Description
SYMPTOM	2	47-36		Sym	0101B 0102B 0103B	Controlware level. This message is logged after every deadstart and everytime the error log or BML is terminated. Operator initiated load. This message is logged whenever LOADBC is initiated by the operator.
СН	2	35 - 24		Cha	nnel us	ed to access the controller.
CW	3	59 – 0		cod	e• ****	e revision level in display ***** if LOADBC cannot evision level.

!	HARDWARE INITIALIZATION	!!!	MSGID	0401B !	
!	COS REVISION LEVEL	!!	SYMPTOM	0104B, 0105B, 0106B !	

The following message applies to the ISD control module.

23-12

59-0

3

ΕQ

CW

	59	47	35		23		11		0
Word 2	! ! 0401B !	! ! SYMPTOM !	! ! !	СН	! ! !	EQ	!!!!	0	1 ! !
Word 3	! ! !		CW						! ! !
Field	Word	Location				Desc	ripti	.on	
SYMPTOM	2	47–36		0	tom c 104B 105B	cos is l dead the term Oper This wher init Syst This	ogged start error inate rator mess ever iated mess ever iated	l aft : and : log d. init sage LOAD l by nitia sage LOAD	his message er every everytime or BML is iated load. is logged BC is the operator. ted load. is logged BC is
СН	2	35-24		Chan modu		sed t	o acc	ess	the control

Equipment number of control module.

COS revision level in display code. ******** if LOADBC cannot find the

revision level.

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! HARDWARE INITIALIZATION !	! ! !	MSGID	0401B
! ! MDI !	! ! !	SYMPTOM	0110B !

This BML message is issued when an MDI is successfully initialized. The MDI is the CDCNET component known as a mainframe device interface.

	59	51 47		35	23	1	. 1	0
Word 2	! ! 0401B !	! ! !	0110B	! ! CH !	! ! E !	ST ! !	0	! ! !
Word 3	! ! 0 !	! ! !	VER	! ! !	0			_! ! !

<u>Field</u>	Word	Location	Description
СН	2	35-24	Channel over which the MDI was initialized.
EST	2	23-12	EST ordinal of the equipment.
VER	3	51-36	Version number of the software to be loaded.

_				•
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	HARDWARE INITIALIZATION	! ! !	MSGID: 0401B	!!!
!!!!	887	! ! !	SYMPTOM: 0107B	!!!

The following BML message is issued whenever NOS recovers a 887 device or whenever NOS terminates the BML file. (The following message must be near the beginning of the BML file for HPA analysis.)

	59	47	35	23	11	0
WORD 2	! 0401B	! ! 0107B !	! ! DT !	! ! ES!	! ! UN !	! !
WORD 2	! ! !	IHD SN	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	IHDC	! ! DBS !	! ! !
WORD 3	! DBS	! ! !	TR	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	IHD RL	!
WORD 4	! ! IHD ! RL	! ! !		0		!

<u>Field</u>	Word	Location	Description
DT	2	35-24	Device mnemonic. Two display code characters.
EST	2	23-12	EST ordinal in binary format.
UN	2	11-0	Unit number in binary format.
IHD SN	2	59-28	Disk serial number.
IHDC	3	11-0	Disk characteristics.
DBS	2	11-0	Data buffer size.
DBS	3	59-40	Data buffer size.
TR	3	39-24	Transfer rate.
IHD RL	4	23-0	Disk revision level.
IHD RL	5	59-52	Disk revision level.

Refer to the CDC Intelligent Hydra Drive Hardware Reference Manual for the format of the IHDC, IHD SN, DBS, TR, and IHD RL fields.

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! HARDWARE	INITIALIZATION	! ! !	MSGID	0401B			-! ! !
! ! NIP/CCC !		! ! !	SYMPTOM	0111B,	0112B,	0113B	-! ! !

	59	47	35	29	23	17	11	0
Word 2	! ! 0401B !	! ! SYMPTOM !	! ! PP !	! ! CH !	! ! EQ !	! ! !	0	! ! !
Word 3	EST	0 !		! ! M !	ID	! ! !	0 ! !	
Word 4	STAT	! ! !		()			! ! !

Field	Location	Description
SYMPTOM	59-48	Symptom code. 0111B NIP/CCC peripheral microcode loaded. 0112B NIP/CCC peripheral microcode load error. 0113B NIP/CCC status error.
PP	35-30	PP that detected the error.
СН	29-24	Channel on which the error was detected.
EQ	23-18	Equipment number.
EST	59-48	EST ordinal of the equipment.
MID	23-12	Machine identifier.
STAT	59-48	CCC status.

!	HARDWARE INITIALIZATION	! !	MSGID 0401B	!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	LOADBC FAILURES	! ! !	SYMPTOM 0114B, 0115B, 0116B, 0117B	!!!!!!

LOADBC issues the following message when an error is detected during controlware reload.

	59	47	35 30	24 0	
WORD 2	! ! 0401B !	! ! SYMPTOM !	! ! CHANNEL !	! ! ! ! ! ! ! !	
WORD 3	! ! ST !	ATUS	! ! !	0 · ! !	
Field	Word	Location		Description	
SYMPTOM	2	47–36		controlware. General status. Function timeout.	
CHANNEL	2	35 - 24	Channe	el used to access the controller.	
STATUS	3	39-30	Genera code t for sy	sed for symptoms 0114B and 0117B. al status for symptom 0115B in displorminated by a period. Function comptom 0116B in display code nated by a period.	-

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! ! BINARY MA	INTENANCE		! ! MSGID !	0406B			!!!
! STATUS ! !			! ! SYMPTOM ! !	0104B,	0102B, 0105B, 0113B,	0107В,	! ! ! !
	59	47	35	23		0	
! Word 2 ! !	0406B	! ! SYMPTOM !	! ! LV !	! ! !	0	! ! !	
! Word 3 ! !			0			· !	
<u>Field</u>	Word	Location		De	scripti	on	
SYMPTOM	2	47–36	01 01 01 01 01	02B Ma 03B Ma 04B De 05B Ma 07B Ma	intenandintenandintenandatartintenandi	ce log cr ce log ac ce log te recovery ce log re ce log da eckpoint	ccessed. erminated ead error ita lost.

2 35-23

termination).

Recovery level.

0113B Maintenance log accessed by HPA.

0114B Maintenance log messages lost (detected by CPUMTR).

60459940 E

LV

! ! PROCESSOR INITIALIZATION ! !	MSGID	
! ! HARDWARE CONFIGURATION/ ! ! MICROCODE, EI ! !	SYMPTOM	0100B !

This message is issued during all levels of deadstart to indicate the microcode and environment interface (EI) being used.

	59	47	35	23	17	11	0
Word 2	! ! 0407B !	! ! 0100B !	! ! !		0		! ! !
Word 3	! ! !		MNAME		! ! C !	!	ENAME !
Word 4	! !		MDATE	! ! !	0		!! !L! !!!
Word 5	! !		EDATE	! ! !	0		! ! !

Field	Word	Location	Description
MNAME	3	59 - 18	Microcode name. Seven display code characters, left justified, zero filled.
ENAME	3	11-0	EI revision level. Two display code characters.
MDATE	4	59 – 24	Date microcode was generated in display code (yymmdd).
L	4	0	If set, microcode was not loaded. If clear, microcode was loaded.
EDATE	5 .	59 - 24	Date EI was generated in display code (yymmdd).

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!	MAINFRAME STATUS	MSGID	0410B !	
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	SUMMARY OF ERROR COUNTERS	! ! SYMPTOM !	0100B !	

This message is issued at the top of every hour by lMB. If all counters are zero, no message is issued. The counters indicate the number of errors encountered during the previous hour.

	_		
5	9	47	35 23 11 0
Word 2 !	0410B	! ! 0100B !	! ! 0
Word 3 ! !_	UPEC	! ! CPUO !	! ! ! ! CPU1 ! CM ! LCME ! ! !
Field	Word	Location	Description
UPEC	3	59-48	Uncorrected processor erro
CPU0	3	47-36	Corrected processor error for processor 0.
CPU1	3	35-24	Corrected processor error for processor 1.
CM	3	23-12	Corrected memory error con

Corrected LCME error counter.

LCME

3

11-0

			<u> </u>	·	
!		!			!
!	SOFTWARE ERROR	!	MSGID	0411B	
!		1		!	!
i		Ť			l
•	CONDITIONAL HANG	i	SYMPTOM	01.008	ì
:	CONDITIONAL MANG	:	SIMITON	0100B	,
- !		I			i

A BML message is issued for each occurrence of a system software error reported through the CPUMTR conditional hang function. This message is also issued for the existing HMGM monitor function and any CPUMTR detected PP HUNG conditions.

	59 5	3 4	7	35	23	11	0
Word 2	! ! 0411: !	B ! !	0100в	! ! !		0	! !
Word 3	! ! ! 0 ! . ! !	! AF ! !	PA	! ! !	JSN	! ! !	sc !
Word 4	! ! !	:		IR			!
Word 5	! ! !			OR			! ! !
Word 6	! ! !			МВ			! ! !

Field	Word	Location	Description
AF	3	53-48	Abort flag. O No user job impact. 1 Job step aborted. 2 Job aborted. 3 PP hung.
PA	3	47-36	PP program address (zero, if detected by CPUMTR).
JSN	3	35-12	Job sequence name of the job.
sc	3	11-0	Job service class.
IR	4	59-0	Input register of the PP when the hang condition occurred.
OR	5	59-0	Output register of the PP when the hang condition occurred.
МВ	6	59-0	Message buffer of the PP (first word when the hang condition occurred).

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COMMENT SHEET

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